

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 9:07 AM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S
Subject: Mainstem data for NWO sitrep 6/5/11 - Resend (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody just sent us an email saying to stay at 115,000 cfs at Garrison today.

Roy

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

Fort Peck Dam (MT)

6/4 Pool Elev: 2250.3 ft-msl

24-hr change: 0.1'

6/4 Ave Inflow: 46,000 cfs

6/4 Ave Release: 27,500 cfs

6/5 Scheduled Release: 40,000 cfs

Garrison Dam (ND)

6/4 Pool Elev: 1853.6 ft-msl

24-hr change: -0.1'

6/4 Ave Inflow: 120,000 cfs

6/4 Ave Release: 114,300 cfs

6/5 Scheduled Release: 115,000 cfs

Oahe Dam (SD)

6/4 Pool Elev: 1619.2 ft-msl

24-hr change: 0.0'

6/4 Ave Inflow: 110,000 cfs

6/4 Ave Release: 111,800 cfs

6/5 Scheduled Release: 130,000 cfs

Big Bend Dam (SD)

6/4 Pool Elev: 1419.4 ft-msl

24-hr change: -0.1'

6/4 Ave Inflow: 96,000 cfs

6/4 Ave Release: 102,300 cfs

6/5 Scheduled Release: 130,000 cfs

Fort Randall Dam (SD)

6/4 Pool Elev: 1360.4 ft-msl

24-hr change: 0.3'

6/4 Ave Inflow: 108,000 cfs

6/4 Ave Release: 100,500 cfs

6/5 Scheduled Release: 117,000 cfs

Gavins Point Dam (NE-SD)

6/4 Pool Elev: 1206.2 ft-msl

24-hr change: -0.1'

6/4 Ave Inflow: 92,000 cfs

6/4 Ave Release: 92,900 cfs

6/5 Scheduled Release: 110,000 cfs

Roy McAllister
Missouri River Basin Water Management Division Northwestern Division Corps of Engineers
402-996-3861
roy.f.mcallister@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 9:01 AM
To: [REDACTED] NWO
Cc: [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO; Farmer, Monique L NWO
Subject: RE: USACE publish revised inundation mapping for South Sioux Area? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
We did update our maps on 4 June.

This update was initiated to include some missing tiles (not in the Sioux City Area) and to provide an index that allowed the maps to be easier to use.

The inundation area did not change in the Sioux City area.

It appears that the Sioux City Journal created their own map using information on our maps. I can't really tell if they translated it correctly.

Bottom line: Our inundation areas did not change.

Thanks for running this down.
[REDACTED]

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 8:27 AM
To: [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: USACE publish revised inundation mapping for South Sioux Area?
Importance: High

BLUF: New inundation mapping issued by USACE?

Folks:

Sioux City Journal published the enclosed inundation mapping that has resulted in big time problem for the City. (aka folks who thought they were high enough now are in panic mod based on this map).

See enclosed pic.

What the Mayor wants to know is why he wasn't made of these revisions. . .because this map, which references us as the source of new inundation areas.

I told him I am not aware of any new revised map, but I will ask the home office to see if I missed something. . .or just not in the know.

Adding also, we can only control what we can control, and if the Journal develops a revised inundation map on there own, that is beyond our control.

I think I already know the answer to this but I have to ask. . .

Bottom Line At Bottom: Has USACE issued any revised inundation mapping from that released a few days ago for the South-Sioux City, NE?

V/r

[REDACTED]

Message sent via my BlackBerry Wireless Device

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 8:43 AM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S
NWD02
Subject: Mainstem data for NWO sitrep 6/5/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

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Roy McAllister

Missouri River Basin Water Management Division Northwestern Division Corps of Engineers

402-996-3861

roy.f.mcallister@usace.army.mil

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 8:27 AM
To: [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: USACE publish revised inundation mapping for South Sioux Area?
Attachments: IMG00825-20110605-0710.jpg

Importance: High

BLUF: New inundation mapping issued by USACE?

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V/r
[REDACTED]

Message sent via my BlackBerry Wireless Device

Flood

FROM PAGE A1

In a normal summer, South Sioux City Administrator Lorne Hedquist said, the Corps releases from 30,000 to 40,000 cfs and that releasing larger amounts, sooner, would have lessened the flooding impact.

Hedquist said the precipitation comes from God but that management of the river is in the hands of man. He argued that if the Corps had funded the releases in a different way, the amount of flooding could have been reduced.

Johanna said local governments spending money on berms and other means to block water should "keep copious records" in case the federal government would reimburse those expenses later.

Hedquist said the flooding could be catastrophic. "The water coming in exceeds the 500-year flood plain," he said. "The river is trying to go into the lake bed from 100 years ago."

Crews will build an earthen floodwall, stretching from east of Covington Links Golf Course to West Third Street, to protect neighborhoods in northwest South Sioux City that are expected to be affected by floodwater and to also stop water from flowing into low-lying areas of southwest South Sioux City where there once was an ox-bow lake. Flood inundation maps show the latter as a large arch that



Flood inundation map

This map shows projected water inundation depths for areas along the U.S. Army Corps of Engineers' 100-year flood plain. The map is based on projections provided by the Corps. Water levels are based on a forecast of the river stage at the Corps' Longest Reservoir, 30,000 cfs, and are not projected to be exceeded. Projections are based on a 100-year flood.

Estimated flood depths

- 4-6 feet
- 6-8 feet
- 8-10 feet
- 10-12 feet
- 12-14 feet
- 14-16 feet
- 16-18 feet
- 18-20 feet

officials said residents would not be allowed back once the deadline passed. Daugaard warned that after the deadline, transportation could become

previously reported. Barring significant rain in the Missouri River basin, the 150,000 cfs releases are expected to continue until mid-August, after which

DAKOTA CITY, NEB.

The Corps of Engineers awarded a contract Friday to Newsham Construction of Omaha, Iowa, for \$201,000 to build a 700-

flood, although groundwater might create problems in some basements. No community meeting will be held unless officials receive new information on

River level update

As of 6:30 p.m. Friday, the Missouri River at Sioux City is at 28.6 feet.

At 30 feet, flood stages, some of the local dikes and levees around the river began to float. This is expected to happen around 3 p.m. Sunday.

At 35 feet, increased flood stages, some of the more remote areas and some of the pasture land along the river began to float. This is expected to happen early Wednesday morning.

At 36 feet (major flood stage), extensive urban flooding in the lower lying portions of Sioux City began. This is expected to happen to most of the Dakota Dunes area, however, will not be impacted by water at this level and is not currently expected to experience flooding.

Other gauges along the Missouri River:

WASHTON, S.D.

Current: 20.1 (major flood stage)

Flood Stage: 20.7
Forecast: 23.0 by mid-June (heavy flooding)

NEAR OATVILLE, S.D.

Current: 25.4
Flood Stage: 26.0

NEAR MANSFIELD, NEB.

Current: 27.9
Flood Stage: 30.0

NEAR PONCA, NEB.

Current: 23.4 (major stage flooding)
Flood Stage: 20.0

DECATUR, NEB.

Current: 22.6
Flood Stage: 25.0

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 7:44 AM
To: [REDACTED] NWO; 'Allen Schlag'; 'Anton, Amy J.'; 'Casteel, Kelly D.'; 'Cecily Fong (cfong@nd.gov)'; [REDACTED] NWO; 'Engelhardt Bruce (bengelhardt@nd.gov)'; 'Erhardt, Toni R NWO'; 'Farhat, Jody S NWD02'; 'Frank Landeis'; 'Gary Stockert'; 'Kathleen Donahue'; 'Reed Carmen (creed@nd.gov)'; 'Richard Johnson'; 'Sandy Olin'; 'Senger Mary (msenger@state.nd.us)'; [REDACTED] NWO; 'Tammy Lapp-Harris'; [REDACTED] NWO; [REDACTED] NWO; 'Mike Hallesy'; 'Jeffrey Savadel'; [REDACTED] NWO; 'Joshua W. Scheck'; 'John Paul Martin'; 'Tom Gurss'; 'Boeckel, Marty (Conrad)'; 'Keys, Ross (Conrad)'
Cc: Quinn, Kevin R NWO; Johnston, Paul T HQ@ NWO
Subject: RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

There will be no 1530 call today, June 5, 2011. We will resume the calls tomorrow at 1530.

V/R
Matt Krajewski

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, May 29, 2011 2:53 PM
To: Allen Schlag; Anton, Amy J.; Casteel, Kelly D.; Cecily Fong (cfong@nd.gov); [REDACTED] NWO; Engelhardt Bruce (bengelhardt@nd.gov); Erhardt, Toni R NWO; Farhat, Jody S NWD02; 'Frank Landeis'; Gary Stockert; Kathleen Donahue; Reed Carmen (creed@nd.gov); 'Richard Johnson'; Sandy Olin; Senger Mary (msenger@state.nd.us); [REDACTED] NWO; Tammy Lapp-Harris; [REDACTED] NWO; [REDACTED] NWO; 'Mike Hallesy'; 'Jeffrey Savadel'; [REDACTED] NWO; 'Joshua W. Scheck'; 'John Paul Martin'; 'Tom Gurss'; Boeckel, Marty (Conrad); Keys, Ross (Conrad); [REDACTED] NWO
Cc: Quinn, Kevin R NWO; Johnston, Paul T HQ@ NWO
Subject: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

I apologize for the duplicate messages to some of you, but I did not utilize my updated distribution list for notice of today's call. I also want to apologize to everyone who called in yesterday. Nobody from the Corps was able to call in as we were working hard on updating and dealing with the revised forecast. I'll do a better job to ensure that if I get pulled in another direction someone from USACE is available to conduct the call! Again, my apologies...
Todd

-----Original Message-----

From: [REDACTED] NWO
Sent: Friday, May 13, 2011 3:26 PM
To: Allen Schlag; Anton, Amy J.; Casteel, Kelly D.; Cecily Fong (cfong@nd.gov); Cimarosti, Daniel E NWO; Engelhardt Bruce (bengelhardt@nd.gov); Erhardt, Toni R NWO; Farhat, Jody S NWD02; Frank Landeis; Gary Stockert; Kathleen Donahue; Reed Carmen (creed@nd.gov); Richard Johnson; Sandy Olin; Senger Mary (msenger@state.nd.us); [REDACTED] NWO; Tammy Lapp-Harris; [REDACTED] NWO
Cc: Quinn, Kevin R NWO
Subject: FW: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

All,

In an attempt to keep agencies along the Missouri River informed about releases from Garrison Dam and potential river stages, we are scheduling routine conference calls. Beginning next week, Monday May 16th, we will conduct a conference call, via a call in number. You are invited to participate in these calls. Currently we are scheduling the calls for Monday, Wednesday and Friday of next week. The calls will be conducted at 11:30 a.m.

During these calls, the Corps of Engineers will provide information on current; reservoir inflows, elevations, and releases. The National Weather Service will also be participating and will provide river stage information, as well as forecast updates, as needed. Following discussion of our release plans, we'd like to hear feedback from the Counties regarding impacts and issues that you're seeing as we increase releases.


As we host the calls next week, we'll discuss the need for continued communication and decide if additional periodic calls are warranted through this time of high releases. Here is the call in information:

USA Toll-Free: (877)336-1839

ACCESS CODE: 7526163

Security Code (if requested): 1234

If you have any additional questions pertaining to the calls, or our operations, feel free to contact Jody Farhat (Chief of Missouri River Water Management Division) or I. Jody can be reached at 402-996-3840. I can be reached at (701) 654-7411 ext. 207.


Operations Project Manager
Garrison Project

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

Caveats: FOUO

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 7:35 AM
To: Farhat, Jody S NWD02
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Ok, I didn't know that there was a change but we will work with it, it still buys us some time.

Paul

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:34 AM
To: [REDACTED] NWO; [REDACTED] NWD02
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

We will be going to 105 at 6 pm and to 110 at 10 pm today based on the information we got yesterday. Call me on my cell at 402-350-1417 if you have any questions.
Jody

----- Original Message -----

From: [REDACTED] NWO
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Sent: Sun Jun 05 05:27:54 2011
Subject: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I see that the forecast nor the orders have been changed to reflect the modification discussed late Friday night.

Is gavins still planning to hold at 100k today, and when will that change be published?

[REDACTED]
[REDACTED] P.E.
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 7:28 AM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I see that the forecast nor the orders have been changed to reflect the modification discussed late Friday night.

Is gavins still planning to hold at 100k today, and when will that change be published?

[REDACTED]

[REDACTED]
[REDACTED]
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Hofmann, Anthony J COL NWK
Sent: Saturday, June 04, 2011 10:59 PM
To: McMahon, John R BG NWD; [REDACTED] NWD; Blechinger, Erik T NWO; Farhat, Jody S NWD02
Cc: Ruch, Robert J COL NWO
Subject: Re: Congressman Luetkemeyer Letter

Sir-
Tracking.
Witt, Rex G., Jud and I can do. Believe this is the right crew for NWK. With Witt there it will add to NWD/Basin perspective.
Tony

Colonel Tony Hofmann, PMP
Commander, Kansas City District
U.S. Army Corps of Engineers
B.B. 816-807-0129

----- Original Message -----

From: McMahon, John R BG NWD
To: Hofmann, Anthony J COL NWK; [REDACTED] NWD; Blechinger, Erik T NWO; Farhat, Jody S NWD02
Cc: Ruch, Robert J COL NWO
Sent: Sat Jun 04 09:44:38 2011
Subject: Fw: Congressman Luetkemeyer Letter

Tony:
No doubt you already saw this--good message from what I can see. Keep up the great work on all fronts.
BREAK--on the Sam Graves visit, we can discuss further--I may have Witt tag along for the Basin-wide issues/concerns--want to keep Jody and Erik crunching in Omaha. MTF.
Vr/John McMahon

----- Original Message -----

From: Tom & Karla Waters <waters4@ix.netcom.com>
To: Waters Tom & Karla <waters4@ix.netcom.com>
Sent: Sat Jun 04 05:40:56 2011
Subject: Congressman Luetkemeyer Letter

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:34 AM
To: [REDACTED]
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

We will be going to 105 at 6 pm and to 110 at 10 pm today based on the information we got yesterday. Call me on my cell at 402-350-1417 if you have any questions.
Jody

----- Original Message -----

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To: Farhat, Jody S NWD02; [REDACTED]
Sent: Sun Jun 05 05:27:54 2011
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Caveats: NONE

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[REDACTED]
[REDACTED]
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWD02

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:50 AM
To: [REDACTED]
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Sorry for not passing on the info - I thought you we're in on the discussion yesterday.

----- Original Message -----

From: [REDACTED]
To: Farhat, Jody S NWD02
Sent: Sun Jun 05 05:34:59 2011
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Ok, I didn't know that there was a change but we will work with it, it still buys us some time.

[REDACTED]

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Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

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From: [REDACTED]
To: Farhat, Jody S NWD02; Knofczynski, Joel D NWD02
Sent: Sun Jun 05 05:27:54 2011
Subject: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

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Caveats: NONE

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[REDACTED]

[REDACTED]
[REDACTED] P.E.
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 8:59 AM
To: [REDACTED]

Cc: [REDACTED]
Subject: Garrison's releases

We'll hold the 115 from Garrison today and increase to 120 tomorrow. This will eliminate the need to put more out of the regulating tunnels today and will allow the spillway repairs to continue to cure over night.

Jody



FEMA

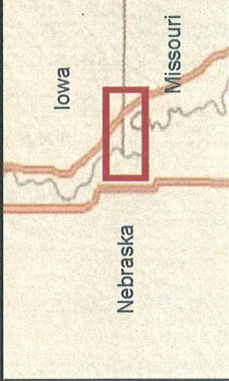
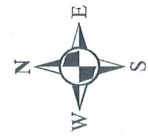
Missouri River Levee Erosion - Hamburg, IA (06-04-11)



Legend

- Levee Erosion (06-04-11 1530)
- Levee Path

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Department of Homeland Security
Federal Emergency Management Agency
Geospatial Intelligence Unit
Kansas City, MO (Region 7)
Date Created: 06/04/2011
Author: cory.macie@dhhs.gov
File: Hamburg_Levee_Erosion_20110604

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 3:58 PM
To: [REDACTED]
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will do. I'll redouble my efforts to make sure you and everyone involved in the flood fight is informed of any changes.

Keep up the good work.

Jody

-----Original Message-----

From: [REDACTED]
Sent: Sunday, June 05, 2011 2:27 PM
To: Farhat, Jody S NWD02
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

That's a negative. I have kept with the story that we had a one day delay for their planning purposes. Since the actual value is about 0.5-0.9 ft below our projected stage, we should still be plenty safe. If there are any future discussions about it, I would appreciate being included since I am directly interfacing with Gov. Dugard on this issue.

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:50 AM
To: [REDACTED]
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

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[REDACTED]
[REDACTED]
Paul M Boyd, P.E.
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 5:38 PM
To: [REDACTED]
Subject: FW: ****URGENT***** CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)
Attachments: DSC00049.jpg; L575 Question Responder2.docx

Classification: UNCLASSIFIED
Caveats: FOUO

-----Original Message-----

From: [REDACTED]
Sent: Sunday, June 05, 2011 5:22 PM
To: [REDACTED]; Duffan, Aguilera, Karen L HQ02; DLI-HQ-UCInternal; CEMD-FOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED]
Cc: [REDACTED]
Subject: RE: ****URGENT***** CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,

Attached is photo from MR L-575 near river mile 552.5. The breaches are still flowing but the levee has fallen in on itself and slowed it. The Levee Safety Program Manager has been onsite and determined that the relief wells do not appear to be functioning as water is not flowing through them and should be. Engineers on site believe the reach is suspect now and it has been determined to keep people and equipment out of the area due to the life safety risk. The Iowa National Guard is dropping large sandbags on the front face of the levee to hopefully provide an extra day or two to build a levee closer to Hamburg to mitigate risk of critical public infrastructure. An alignment is currently being laid out. Inundation areas and times are continuing to be worked.

Also attached is the response to the questions asked earlier.

Thanks,

[REDACTED]
[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
[REDACTED]
Omaha, NE 68102

[REDACTED]
[REDACTED]
kimberly.s.thomas@usace.army.mil

-----Original Message-----

From: [REDACTED]
Sent: Sunday, June 05, 2011 9:37 AM
To: [REDACTED]; [REDACTED]; [REDACTED]; [REDACTED]; McMahon, John R BG NWD;
Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED]
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575
(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Yes, levee MR L-575 is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor. It was constructed by USACE.

More information will be issued as it becomes available.

The States of Iowa and Missouri Emergency Management Agencies as well as the County EM's, NWS, FEMA Region VII have been notified as well. DOT's are working on closing down I-29 as we continue to evaluate the inundation areas. USACE and Contractor personnel are evacuating and as soon as we have full accountability on high ground, we will send out another message.

Thanks,

[REDACTED]
[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
[REDACTED]
Omaha, NE 68102

-----Original Message-----

From: [REDACTED]
Sent: Sunday, June 05, 2011 9:31 AM
To: [REDACTED]; [REDACTED]; McMahon, John R BG NWD;
Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED]
Cc: [REDACTED]
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575
(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] pls clarify. Is this levee is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor? Did we construct or was it constructed by others and incorporated into the Federal program later. Thanks and for this and future items, pls be clear. I continue to see the term "federal levee" used, when I think it usually refers to a levee in the federal program. We do have true "federal levees", meaning levees owned and

operated by the Corps, especially the MR&T. Using the same label for both situation is confusing. Thx, kd-a

BUILDING STRONG!

[REDACTED]
[REDACTED] Durham-Aguilera, P.E., SES
Director, Contingency Operations and Homeland Security HQ USACE
[REDACTED]
[REDACTED] Durham-Aguilera@usace.army.mil

-----Original Message-----

From: Thomas, Kimberly S NWO
Sent: Sunday, June 05, 2011 10:14 AM
To: [REDACTED] Internal; Durham-Aguilera, Karen L HQ02; CENWD-EOC NWO; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; Dornstauder, Alex C HQ02; Miller, Elizabeth H
[REDACTED]
Cc: CENWD-EOC NWO; DLI-CENWD-EOC CMT-ALL; CENWD-EOC NWO
Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,

Who: US Army Corps of Engineers, Omaha District
What: Levee Breach - Missouri River Levee - L-575
When: 05 June 2011 at 0900
Where: Near Hamburg, IA, River Mile 552.5, Atchison County, MO
Why: A full levee breach has occurred on Missouri River Federal Levee L-575. USACE contractors and personnel were onsite 100' South of the breach working the issue from yesterday. This is a new area, not the one that was noticed yesterday. All personnel are evacuating. The States of Missouri and Iowa Emergency Management Agencies have been identified as well as the local emergency managers. More to follow as it becomes available.

Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

Thanks,

[REDACTED]
[REDACTED]
Kimberly S. Thomas
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
[REDACTED] Ste 9000
Omaha, NE 68102
402-995-1443 Office
402-490-5899 Blackberry
kimberly.s.thomas@usace.army.mil

Classification: UNCLASSIFIED
Caveats: FOUO



Response to Headquarters Questions
L-575 Breech, Northwest Atchison County Levee District Section
5 June 2011

1. **When was this levee designed and constructed?** There are five segments of levee L-575 near Hamburg. They are Benton-Washington levee district (Fremont County, IA), Buchanan Drainage District (Atchison County, MO), Hamburg Levee and drainage District (Fremont County, IA), Mikissock Island Precinct Dike and Levee District (Nemaha County, NE) and Northwest Atchison County Levee District (Atchison County, MO). The following is the information for the segment in question:

Northwest
Atchison

Construction of the levees along the Nishnabotna River from the Iowa State Line to the CB&QRR Bridge was started on 19 May 1947 and completed on 18 May 1948. The completed levee was turned over to the local cooperating agency for operation and maintenance on 4 June 1948. Construction of the levee for the balance of the unit was started on 1 March 1948 and completed on 26 August 1949. The completed levee was turned over to the local cooperating agency for operation and maintenance on 14 November 1949.

2. **Design Level of Protection?** (only provided for the segment in question)

Northwest
Atchison

Freeboard of 2 feet against a flood stage of 26.8 feet as measured on the Nebraska City gage

Note: the Stage at the Nebraska City Gage at the time of the slump was 23.13 feet.

3. **Actual Level of Protection?**

The lowest point on L-575 is currently 914 feet (NAVD88), but is not located within this segment.

4. **Type of breach/failure?**

Based on the appearance of the breach, it is speculated that the levee is experiencing piping failures at two or more locations. A piping failure can occur when the river elevation is high, forcing seepage through the levees pervious foundation soils. If the rate of flow is too great, seepage will erode soil particles and eventually create a flow path or "pipe" from the river side to



Figure 1



Figure 2

the land side of the levee. In the case of L-575, the levee collapsed into the pipe that had formed resulting in an approximate 4 to 5 foot loss of levee height (see Figures 1 and 2).

5. Water surface and top of levee elevation at time of failure?

Water surface elevation at the time of the breach was 910 feet (NAVD88 datum) with the low point of the levee being 914 feet (NAVD88). The 914 feet is not located within the Northwest Atchison segment of the levee it is located about 5 miles downstream. The maximum water surface elevation is expected to occur during mid-June and is projected to be 916 feet (NAVD88). [Note: There is another levee between L-575 and Hamburg named "Ditch 6". The elevation of that levee is 911 msl (NGVD29) or 911.3 (NAVD88)].

6. Last Inspection? Rating?

The Northwest Atchison County Levee District segments of L-575 were last inspected on September 9, 2010. The overall rating for all segments was minimally acceptable. A copy of the report is available on request.

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 3:58 PM
To: [REDACTED]
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will do. I'll redouble my efforts to make sure you and everyone involved in the flood fight is informed of any changes.

Keep up the good work.

Jody

-----Original Message-----

From: [REDACTED]
Sent: Sunday, June 05, 2011 2:27 PM
To: Farhat, Jody S NWD02
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

That's a negative. I have kept with the story that we had a one day delay for their planning purposes. Since the actual value is about 0.5-0.9 ft below our projected stage, we should still be plenty safe. If there are any future discussions about it, I would appreciate being included since I am directly interfacing with Gov. Dugard on this issue.

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:50 AM
To: [REDACTED]
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Sorry for not passing on the info - I thought you we're in on the discussion yesterday.

----- Original Message -----

From: [REDACTED]
To: Farhat, Jody S NWD02
Sent: Sun Jun 05 05:34:59 2011
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Ok, I didn't know that there was a change but we will work with it, it still buys us some time.

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:34 AM
To: [REDACTED]
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

We will be going to 105 at 6 pm and to 110 at 10 pm today based on the information we got yesterday. Call me on my cell at [REDACTED] if you have any questions.
Jody

----- Original Message -----

From: [REDACTED]
To: Farhat, Jody S NWD02; Knofczynski, Joel D NWD02
Sent: Sun Jun 05 05:27:54 2011
Subject: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I see that the forecast nor the orders have been changed to reflect the modification discussed late Friday night.

Is gavins still planning to hold at 100k today, and when will that change be published?

[REDACTED]
[REDACTED]
Paul M Boyd, P.E.
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
5 June 2011

Releases

- Each day we update the reservoir forecast with new rain and snow runoff information
- When changes to the inflow forecasts occur, which they often do, it may be necessary for us to make adjustments to the come-up schedules at the mainstem reservoirs to balance the impacts of changing conditions.
 - Also important to note is that changing conditions at any one of the mainstem dams may have a ripple effect on the other 5
- We will be updating our reservoir forecast daily and will be posting it on the web when it is complete, generally in the late afternoon. We encourage you to monitor the web site and participate in these daily calls to ensure you have the latest and best information available
- Important to note that any time a release change of 10,000 cfs or more is planned at one of the reservoirs, the releases may be stepped up incrementally throughout the day to avoid rapid changes in downstream river levels. If you have specific concerns or questions with the come-up schedule, please call our office.
- Planned releases at the 6 dams based on the forecast we posted on the web this afternoon did not change from yesterday's forecast. The releases are as follows:
 - Fort Peck –Releases today 40,000 cfs tomorrow, 45,000 cfs on Monday and 50,000 cfs peak by Tuesday.
 - Garrison –Holding 115,000 cfs today, increasing to 120,000 cfs on Monday, and increasing to 130,000 cfs on Tuesday with an eventual peak of 150,000 cfs no later than mid-June. Increases of 10,000 cfs or more will generally be made in two steps.
 - Oahe –Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.
 - Big Bend – Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.
 - Fort Randall – 117,000 cfs today, going to 127,000 cfs tomorrow in two steps, and then 138,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.
 - Gavins Point – 110,000 cfs today, going to 120,000 cfs tomorrow in two steps, and then approximately 10,000 cfs per day until release reach 140,000 cfs on Wednesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.
- The forecast is based on best available information at this time; actual releases are based on conditions on the ground, which are subject to change.
- Bottom line is, the sooner we can reach these maximum release rates, the less risk there is that we'll have to go higher; once we have evacuated some storage in the reservoir system, we will have more flexibility to respond to changing conditions

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between 1989 and 2004, analyzed the potential to provide additional flood control storage

by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.
 - Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.

- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997

NWO

From: Williamson, Eileen L NWO
Sent: Sunday, June 05, 2011 8:18 PM
To: Farmer, Monique L NWO
Cc: Farhat, Jody S NWD02
Subject: RE: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

These are awesome!
Jennyann is the best.

-----Original Message-----
From: Farmer, Monique L NWO
Sent: Sunday, June 05, 2011 8:13 PM
To: Williamson, Eileen L NWO
Cc: Farhat, Jody S NWD02
Subject: FW: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen:

Would you like these for FB? Jody: Would you like these for HQ reporting?

-----Original Message-----
From: [REDACTED] ACE-IT
Sent: Saturday, June 04, 2011 4:59 PM
To: Farmer, Monique L NWO
Subject: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Information Products Coordinator
U.S. Army Corps of Engineers
Omaha District
Work: [REDACTED]
Cell: [REDACTED]
Email: [REDACTED]@usace.army.mil

ACE-IT@NWO - CEIT-PMO-IP

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED

[REDACTED] NWO

From: Farmer, Monique L NWO
Sent: Sunday, June 05, 2011 8:13 PM
To: Williamson, Eileen L NWO
Cc: Farhat, Jody S NWD02
Subject: FW: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)
Attachments: USACE Mainstem Dam System daily elev 20110604.pdf; USACE Mainstem Dam System daily elev 20110605.pdf

Classification: UNCLASSIFIED

Caveats: NONE

Eileen:

Would you like these for FB? Jody: Would you like these for HQ reporting?

-----Original Message-----

From: [REDACTED] ACE-IT
Sent: Saturday, June 04, 2011 4:59 PM
To: Farmer, Monique L NWO
Subject: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]
Information Products Coordinator
U.S. Army Corps of Engineers
Omaha District
Work: [REDACTED]
Cell: [REDACTED]
Email: [REDACTED]@usace.army.mil

ACE-IT@NWO - CEIT-PMO-IP

Classification: UNCLASSIFIED

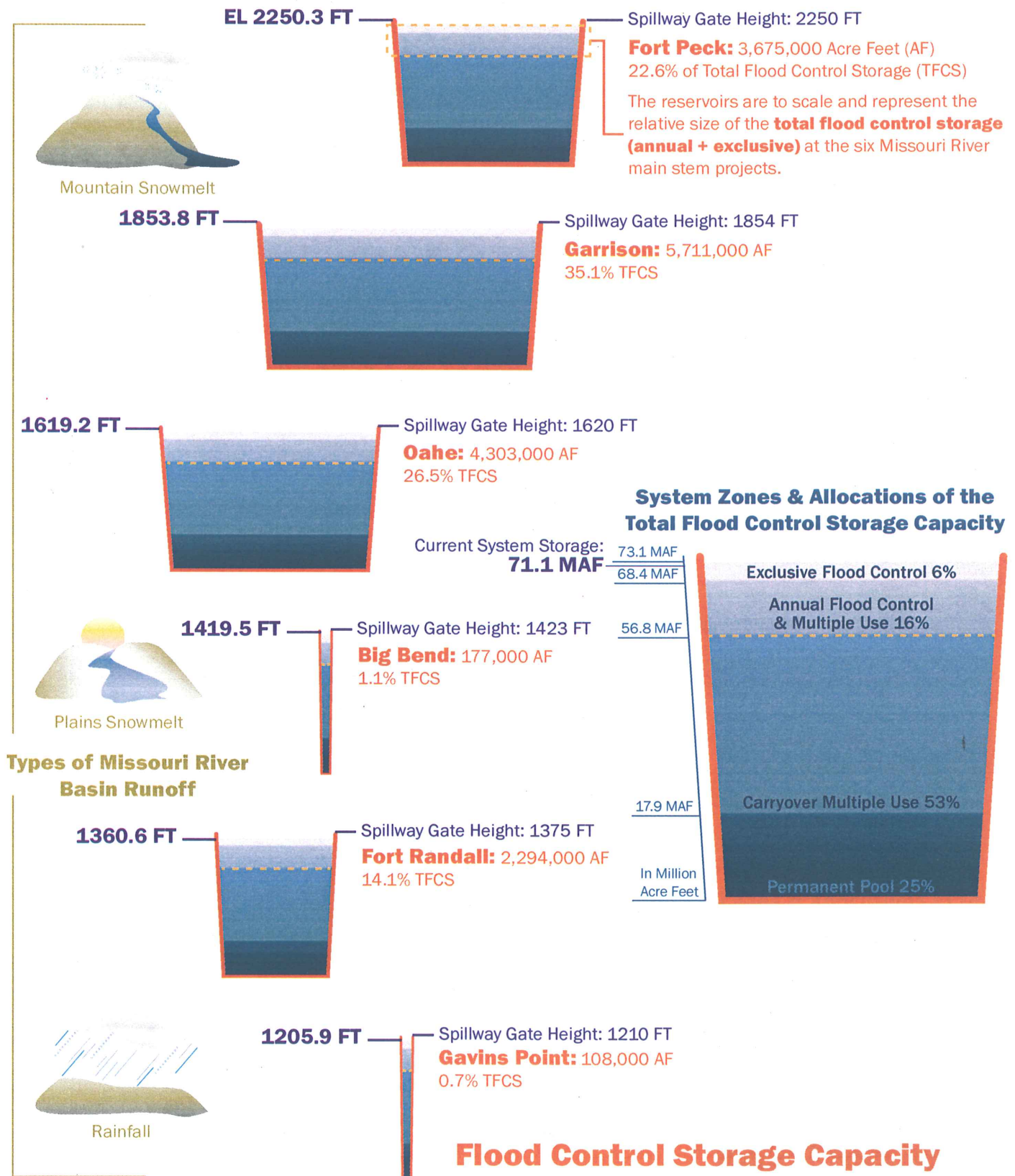
Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

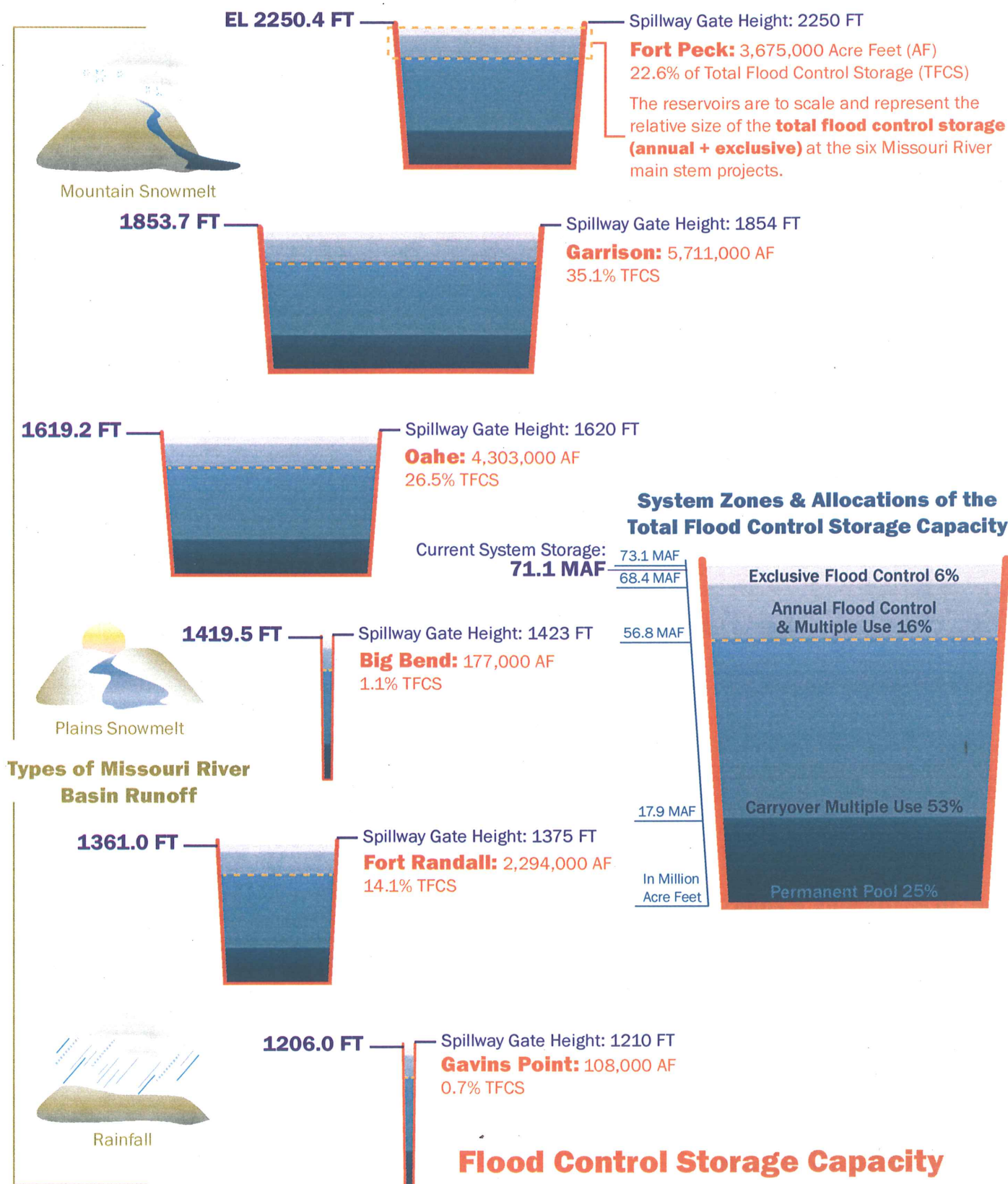
Missouri River Main Stem Reservoir System

Midnight Elevation (EL) Forecast: June 4, 2011 (feet above mean sea level)



Missouri River Main Stem Reservoir System

Midnight Elevation (EL) Forecast: June 5, 2011 (feet above mean sea level)



NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 8:11 PM
To: Blechinger, Erik T NWO; McMahon, John R BG NWD; Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD
Subject: Re: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Yes, was good.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Blechinger, Erik T NWO
To: McMahon, John R BG NWD; Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; Anderson, G Witt NWD
Sent: Sun Jun 05 17:50:51 2011
Subject: FW: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Good coverage from National media. The guy in the white shirt walking with Eric Stasch is one of our ESF-15 MRJIC guys.

-----Original Message-----

From: Lazo, Carlos J SPK
Sent: Sunday, June 05, 2011 6:36 PM
To: Farmer, Monique L NWO; Blechinger, Erik T NWO
Cc: Johnston, Paul T HQ@ NWO; Oldham, Margaret NWO; Farhat, Jody S NWD02; Williamson, Eileen L NWO; Stasch, Eric D NWO; [REDACTED] NWO
Subject: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

ALCON,

From tonight's NBC Nightly News:

Disaster looms along the Missouri River
The swollen Missouri forces more evacuations across the upper Midwest as the river threatens to topple levees and burst banks. NBC's Miguel Almaguer reports.
<http://www.msnbc.msn.com/id/3032619/vp/43286944#43286944>

TONE: NEUTRAL OVERALL.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: (916) 307-8738
carlos.j.lazo@usace.army.mil

NWO

From: Blechinger, Erik T NWO
Sent: Sunday, June 05, 2011 7:51 PM
To: McMahon, John R BG NWD; Farhat, Jody S NWD02; Tipton, Robert A Col NWD; Leighow, John K NWD; Anderson, G Witt NWD
Subject: FW: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Good coverage from National media. The guy in the white shirt walking with Eric Stasch is one of our ESF-15 MRJIC guys.

-----Original Message-----

From: Lazo, Carlos J SPK
Sent: Sunday, June 05, 2011 6:36 PM
To: Farmer, Monique L NWO; Blechinger, Erik T NWO
Cc: Johnston, Paul T HQ@ NWO; Oldham, Margaret NWO; Farhat, Jody S NWD02; Williamson, Eileen L NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

ALCON,

From tonight's NBC Nightly News:

Disaster looms along the Missouri River

The swollen Missouri forces more evacuations across the upper Midwest as the river threatens to topple levees and burst banks. NBC's Miguel Almaguer reports.

<http://www.msnbc.msn.com/id/3032619/vp/43286944#43286944>

TONE: NEUTRAL OVERALL.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: (916) 307-8738
carlos.j.lazo@usace.army.mil

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: Farmer, Monique L NWO
Sent: Sunday, June 05, 2011 8:20 PM
To: Farhat, Jody S NWD02
Cc: Williamson, Eileen L NWO
Subject: RE: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

OK - well if you are good with it, we will post these to the Web regularly for public info.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 8:17 PM
To: Farmer, Monique L NWO
Subject: RE: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Monique - We've got a good package we're sending up to HQ. I don't think I'll make any changes to the format at this time.

Thanks anyway,
Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Sunday, June 05, 2011 8:13 PM
To: Williamson, Eileen L NWO
Cc: Farhat, Jody S NWD02
Subject: FW: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Eileen:

Would you like these for FB? Jody: Would you like these for HQ reporting?

-----Original Message-----

From: [REDACTED] ACE-IT
Sent: Saturday, June 04, 2011 4:59 PM
To: Farmer, Monique L NWO
Subject: Midnight elevation graphics for 4-5 June 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]
Information Products Coordinator
U.S. Army Corps of Engineers

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 6:39 PM
To: 'Cathy.Zapotocny@noaa.gov'
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: RE: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

This call is actually 1400 hours central time. The email below was using mountain time. It should not conflict with the CMT. Maybe that will make scheduling easier.

[REDACTED]
US Army Corps of Engineers
Water Control and Water Quality Section
Hydraulic Engineer
[REDACTED]
[REDACTED]@usace.army.mil

-----Original Message-----

From: Cathy.Zapotocny@noaa.gov [mailto:Cathy.Zapotocny@noaa.gov]
Sent: Sunday, June 05, 2011 6:25 PM
To: [REDACTED] NWO
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: Re: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)

Thanks [REDACTED], my plan is to provide the weather brief at the CMT at 1pm and then step out to join the webinar from Billings.

How does this sound? I may be able to call and talk to the Billings NWS office in advance and get a copy of what they plan to talk about ahead of the 1pm call. Cathy

----- Original Message -----

From: "[REDACTED] NWO" <[REDACTED]@usace.army.mil>
Date: Sunday, June 5, 2011 4:51 pm
Subject: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)
To: "[REDACTED] NWO" <[REDACTED]@usace.army.mil>, [REDACTED] NWO" <[REDACTED]@usace.army.mil>, [REDACTED] NWO" <[REDACTED]@usace.army.mil>, [REDACTED] NWO" <[REDACTED]@usace.army.mil>
Cc: "Farhat, Jody S NWD02" <Jody.S.Farhat@usace.army.mil>, [REDACTED] NWD02" <[REDACTED]@usace.army.mil>, [REDACTED] NWD02" <[REDACTED]@usace.army.mil>, [REDACTED] NWD02" <[REDACTED]@usace.army.mil>, Cathy.Zapotocny@noaa.gov

> Classification: UNCLASSIFIED

> Caveats: NONE
>
> I reserved a webinar seat and will plan to listen to the call in room
> 534.
> Anyone else is welcome to join.
>
> [REDACTED]
> US Army Corps of Engineers
> Water Control and Water Quality Section Hydraulic Engineer
> ([REDACTED])
> [REDACTED]@usace.army.mil
>
>
>

> -----Original Message-----

> From: [REDACTED] NWO
> Sent: Sunday, June 05, 2011 4:35 PM
> To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED]
> NWO; [REDACTED] NWO
> Cc: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED]
> D NWD02; [REDACTED] NWD02; cathy.zapotocny@noaa.gov
> Subject: FW: Your Webinar Invitation: Join us for National Weather
> Service Webinar - Potential Severe Weather Event and Flood Update
> (UNCLASSIFIED)
> Importance: High
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>

> Can someone from Water Control please attend?

> Water Management and Cathy: FYI
>
> [REDACTED]
>

> -----Original Message-----

> From: Billings.NWS@noaa.gov [
> Sent: Sunday, June 05, 2011 4:28 PM
> To: [REDACTED] NWO
> Subject: Your Webinar Invitation: Join us for National Weather
> Service Webinar - Potential Severe Weather Event and Flood Update
> Importance: High
>
> National Weather Service Webinar - Potential Severe Weather Event and
> Flood Update Join us for a Webinar on MON JUN 06 2011
>
> Date/Time: MON JUN 06 2011 at 1 PM
>
> The National Weather Service will be providing an overview for a
> Potential Severe Weather Event and Flood Update.
>
> A fast moving storm system will approach the area late Monday
> afternoon. The airmass will be moist and unstable ahead of this
> system and wind patterns will become supportive of severe weather.
> This has the potential to be a significant severe weather outbreak
> for a large portion of the area.
> Also
> this system will bring precipitation for western areas but bring

> cooler temperatures which will slow down snowmelt. An update on
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> Conference Call Phone Number: 1-888-823-2906
> Conference Call Passcode: 9749112#
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> SYSTEM REQUIREMENTS
> PC-based attendees: Windows 7, Vista, XP, or 2003 Server
> Macintosh-based
> attendees: Mac OS X 10.4.11 (Tiger) or newer
>
> Find us on Facebook at
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> To view a graphical image related to this event go to the following link...
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>
>
> Talk to you soon,
>
> NWS Billings, MT
>
> Do not reply to this email. If you would like to contact the National
> Weather Service in Billings, MT, call 1-406-652-0851. If you would
> prefer to be removed from these emails or have other questions,
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>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Lazo, Carlos J SPK
Sent: Sunday, June 05, 2011 6:36 PM
To: Farmer, Monique L NWO; Blechinger, Erik T NWO
Cc: Johnston, Paul T HQ@ NWO; Oldham, Margaret NWO; Farhat, Jody S NWD02; Williamson, Eileen L NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

ALCON,

From tonight's NBC Nightly News:

Disaster looms along the Missouri River

The swollen Missouri forces more evacuations across the upper Midwest as the river threatens to topple levees and burst banks. NBC's Miguel Almaguer reports.

<http://www.msnbc.msn.com/id/3032619/vp/43286944#43286944>

TONE: NEUTRAL OVERALL.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: (916) 307-8738
carlos.j.lazo@usace.army.mil

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Cathy.Zapotocny@noaa.gov
Sent: Sunday, June 05, 2011 6:25 PM
To: [REDACTED] NWO
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: Re: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)

Thanks Brian, my plan is to provide the weather brief at the CMT at 1pm and then step out to join the webinar from Billings.

How does this sound? I may be able to call and talk to the Billings NWS office in advance and get a copy of what they plan to talk about ahead of the 1pm call. Cathy

----- Original Message -----

From: "[REDACTED] NWO" <[REDACTED]@usace.army.mil>
Date: Sunday, June 5, 2011 4:51 pm
Subject: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)
To: "[REDACTED] NWO" <[REDACTED]@usace.army.mil>, "Flanigan, Alexander J NWO" <[REDACTED]@usace.army.mil>, "[REDACTED] NWO" <[REDACTED]@usace.army.mil>, "[REDACTED] NWO" <[REDACTED]@usace.army.mil>
Cc: "Farhat, Jody S NWD02" <Jody.S.Farhat@usace.army.mil>, "[REDACTED] NWD02" <[REDACTED]@usace.army.mil>, "[REDACTED] NWD02" <[REDACTED]@usace.army.mil>, "[REDACTED] NWD02" <[REDACTED]@usace.army.mil>, [REDACTED]y@noaa.gov

> Classification: UNCLASSIFIED

> Caveats: NONE

>

> I reserved a webinar seat and will plan to listen to the call in room 534.

> Anyone else is welcome to join.

>

> [REDACTED]

> US Army Corps of Engineers

> Water Control and Water Quality Section Hydraulic Engineer

> ([REDACTED])

> [REDACTED]@usace.army.mil

>

>

> -----Original Message-----

> **From:** [REDACTED] NWO

> **Sent:** Sunday, June 05, 2011 4:35 PM

> **To:** [REDACTED] NWO; [REDACTED] NWO; [REDACTED]

> NWO; [REDACTED] NWO

> **Cc:** Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED]

> D NWD02; [REDACTED] NWD02; cathy.zapotocny@noaa.gov

> **Subject:** FW: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)

> **Importance:** High

>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Can someone from Water Control please attend?
>
> Water Management and Cathy: FYI
>
> [REDACTED]
>
> -----Original Message-----
> From: Billings.NWS@noaa.gov [
> Sent: Sunday, June 05, 2011 4:28 PM
> To: [REDACTED] NWO
> Subject: Your Webinar Invitation: Join us for National Weather
> Service Webinar - Potential Severe Weather Event and Flood Update
> Importance: High
>
> National Weather Service Webinar - Potential Severe Weather Event and
> Flood Update Join us for a Webinar on MON JUN 06 2011
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> contact Tom Frieders by phone or email tom.frieders@noaa.gov
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>

From: Gaarder, Nancy [Nancy.Gaarder@owh.com]
Sent: Sunday, June 05, 2011 5:14 PM
To: Farhat, Jody S NWD02
Subject: RE: Article (UNCLASSIFIED)

Hi Jody,

Thank you,

Nancy

Omaha World-Herald
www.omaha.com

Nancy Gaarder
Reporter
Office: 402-444-1102
Fax: 402-444-1231
Email: Nancy.Gaarder@owh.com
1314 Douglas St.- Suite 700
Omaha, NE 68102

-----Original Message-----

From: Farhat, Jody S NWD02 [<mailto:Jody.S.Farhat@usace.army.mil>]
Sent: Sunday, June 05, 2011 3:45 PM
To: Gaarder, Nancy
Subject: Article (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Nancy - didn't get a chance to tell you thanks for the article in today's paper. I appreciate your thoughtful approach to the flooding.

Jody

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840

Classification: UNCLASSIFIED

[REDACTED] NWO

From: Blair, Amy E NWK
Sent: Sunday, June 05, 2011 4:53 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWK
Subject: FW: Main Stem Operations - Sen McCaskill (UNCLASSIFIED)

Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

I know prior to the rains in Montana, releases had been ramped up ahead of "normal" levels to additionally release extra water.

Can we get something put together that illustrates this picture for John to use in conversations with elected officials (and MRJIC)?

-----Original Message-----

From: [REDACTED] NWK
Sent: Sunday, June 05, 2011 4:38 PM
To: [REDACTED] NWK; Blair, Amy E NWK
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK
Subject: Main Stem Operations - Sen McCaskill (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Trish / Amy

I may be seeing Gov Brownback very soon, along with various KS officials. Last week Sen. McCaskill was publicly questioning our operations of main stem dams, claiming that we should have opened gates sooner. Prior to meeting with any more politicians, I would really like to have a good response to that issue that provides a little bit of detail w/ summary / overview timeline of events, record inflows, and reason why we could not have anticipated and opened gates sooner. Thx for any help you can provide.

[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 4:52 PM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; 'cathy.zapotocny@noaa.gov'
Subject: RE: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I reserved a webinar seat and will plan to listen to the call in room 534. Anyone else is welcome to join.

[REDACTED]
US Army Corps of Engineers
Water Control and Water Quality Section
Hydraulic Engineer
([REDACTED])
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 4:35 PM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; 'cathy.zapotocny@noaa.gov'
Subject: FW: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Can someone from Water Control please attend?

Water Management and Cathy: FYI

-----Original Message-----

From: Billings.NWS@noaa.gov [mailto:Billings.NWS@noaa.gov]
Sent: Sunday, June 05, 2011 4:28 PM
To: [REDACTED] NWO
Subject: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update
Importance: High

National Weather Service Webinar - Potential Severe Weather Event and Flood Update Join us for a Webinar on MON JUN 06 2011

Date/Time: MON JUN 06 2011 at 1 PM

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Space is limited.

Reserve your Webinar seat now at:

<https://www1.gotomeeting.com/register/650802041>

After registering you will receive a confirmation email containing information about joining the Webinar.

For the audio portion of the webinar, use the following call information:

Conference Call Phone Number: 1-888-823-2906

Conference Call Passcode: 9749112#

SYSTEM REQUIREMENTS

PC-based attendees: Windows 7, Vista, XP, or 2003 Server Macintosh-based attendees: Mac OS X 10.4.11 (Tiger) or newer

Find us on Facebook at <http://www.facebook.com/US.NationalWeatherService.Billings.gov>

To view a graphical image related to this event go to the following link...

<http://www.wrh.noaa.gov/FXC/wxstory.php?wfo=byz&img=1>

Talk to you soon,

NWS Billings, MT

Do not reply to this email. If you would like to contact the National Weather Service in Billings, MT, call 1-406-652-0851. If you would prefer to be removed from these emails or have other questions, contact Tom Frieders by phone or email tom.frieders@noaa.gov

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 4:35 PM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; cathy.zapotocny@noaa.gov
Subject: FW: Your Webinar Invitation: Join us for National Weather Service Webinar - Potential Severe Weather Event and Flood Update (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Can someone from Water Control please attend?

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[REDACTED]
-----Original Message-----

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Sent: Sunday, June 05, 2011 4:28 PM
To: [REDACTED] NWO
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NWS Billings, MT

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Classification: UNCLASSIFIED

Caveats: NONE

NWO

Subject: KFAB Radio Interview (UNCLASSIFIED)
Location: Your Office

Start: Mon 6/6/2011 8:00 AM
End: Mon 6/6/2011 8:30 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Farmer, Monique L NWO
Required Attendees: Farhat, Jody S NWD02; [REDACTED] NWO

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

Can you do a live radio interview Monday morning? This would give us the opportunity to dispel some of the myths that are out there. KFAB had Scott Vorhees on this morning and there were quite a few. See email below. It would start at 8:20 a.m. and last for about 10 mins.

Kevin,

My wife called and told me there was lot of misinformed discussion on KFAB's Scott Voorhees show this morning. Aside from typical commentary on the COE's flood-control skills, a contractor who worked here recently called in and said there are TVs in all the offices (implying everyone has a TV?) and they're all tuned to Fox News instead of the Weather Channel. I happen to know that is not true.

My wife said the Corps should turn on Scott's show and call in to straighten them out. I told her I'd contact the PA office and let them know. I suspect you have bigger fish to fry right now, but at least I can tell my wife I did what I said I'd do.

They are looking for the following from us Monday:

Per our conversation, here is what we are looking for on Monday morning.

A guest from the Corps that can address the planned outflows from the upstream dams, if there has been any changes in plans over the weekend, how that will impact flooding along the Nebraska-Iowa border, especially in the Omaha metro but mainly from south of Sioux City to Rulo (our listening area). Timelines for when greatest impacts will occur.

We do want to address the most common rumor that the Corps did not release sooner because of impact of breeding areas and habitat for some endangered birds and fish....let's address that. Could releases have been increased

sooner...would they have mitigated the impact- and if not, what prevented earlier increases (that one is not so much a vicious rumor but just a question we hear people are asking).

This is in no way an attack/ambush interview but our listeners would think we dropped the ball if we didn't ask questions that they have. We also would like to be the conduit to help quell rumors if they are untrue. The talk segment is only 8-9 minutes so we would not take listener calls. It will be a Q&A format and they may follow up with a question based on something the guest says....but this is the primary focus of where the interview will go.

I would like to do this at 820 AM but could do it at 740 AM if you do not have anybody available at 820 AM CT. We will be out by 830 AM. Our host is Gary Sadlemyer...co-host is Scott Voorhees. We usually initiate the call so I would need a phone number (preferably land line) where we could reach the guest. We can use a cell if we have no other choice. for backup, our hotline is 402-556-9000. If the guest must call us, they can use that hotline. I would still like to get a backup phone or cell for that person for my use that morning if I need to get hold of the guest.

Finally, of course, I will need the name and title of the guest.

Thank you for all your help and let me know if you have any further questions.

Roger

Roger Olson
Producer- 1110 KFAB Good Morning Show
5010 Underwood Ave.
Omaha, NE 68132

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 3:48 PM
To: [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] HQ@NWD
Subject: Re: Mississippi/Missouri Rivers Post-Flood Assessment Plan

[REDACTED]
Based on quick review, I think this is a good idea. My biggest concern would be to ensure the steering committee does not result in slowing critical repairs. I think a good idea to have, but processes need to be established so it helps make decisions in a timely manner

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] NWD
To: [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] HQ@NWD
Sent: Sat Jun 04 19:16:01 2011
Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Please take a look. I reviewed this eve and my initial impression is this a very good approach. Can add lots of details, areas to address, specific questions....which could certainly be province of PgMP/PMPs.

Feed any thoughts to me and I'll get back with CG.

Those of you in the deep fight - no need to be distracted by this.

Thanks,

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: McMahon, John R BG NWD
To: [REDACTED] NWD
Sent: Sat Jun 04 13:24:58 2011
Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Witt:
Please review. Thanks.
Vr/john

Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Commanders:

For the past two weeks, we have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

The effort will utilize current authorities, policies, procedures, tools and terminology, and be conducted by USACE staff, supplemented by contracted staff, as appropriate, and generally follow the robust review and independence tenets of EC 1165-2-209. We are still working on a "straw-man" PMP that would guide the field's efforts and the details on staffing requirements.

I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to Mike Ensich, James Dalton, Karen DA, Steve Stockton, and I.

V/R,
Bill

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 2:32 PM
To: Farhat, Jody S NWD02; CENWD-EOC NWD
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Thanks jody

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWD
Sent: Sun Jun 05 12:28:24 2011
Subject: RE: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I'm checking with Erik B to see if he can handle the radio interview, once he confirms I'll let you know.

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 2:00 PM
To: Farhat, Jody S NWD02
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Operations at hq. COL smith who is like the opearitions officer at hq

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWD
Sent: Sun Jun 05 11:57:46 2011
Subject: RE: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] - I'm not good at the acronyms. Who is G3?

I'm supposed to be on a radio interview at that time, but I could probably get someone else to cover that.

Jody

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:47 PM
To: [REDACTED] HQ02; Farhat, Jody S NWD02; [REDACTED] NWD
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Roger. Will do
Jody, please confirm you can attend.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] HQ02
To: [REDACTED] NWD
Sent: Sun Jun 05 11:36:08 2011
Subject: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
We will need someone knowledgeable on current events in your AO on the line for the 0900EDT tomorrow. Can you guys support that? G3 is requesting this.

Thanks.

[REDACTED]
[REDACTED]
[REDACTED]
Operations Officer
USACE Operations Center
[REDACTED] (operations)
[REDACTED] (desk)
CE-UOC@usace.army.mil (operations)
[REDACTED]@usace.army.mil (desk)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 2:30 PM
To: Farhat, Jody S NWD02
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Great, thanks Jody.

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 12:27 PM
To: [REDACTED] NWD
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I reposted it with your recommended changes. See ftp link below.

Jody

<ftp://ftp.usace.army.mil/usace/nwd/MO%20flooding%203/>

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:54 PM
To: Farhat, Jody S NWD02
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Looks good Jody. Would probably be useful to put the MAF of storage in exclusive FC and annual FC zones for each of the 4 projects?

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 11:40 AM
To: [REDACTED] NWD
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I updated slides 4 and 6 with the current elevations and also added the 2011 minimum's (rather than Mar 1 values, see explanation below). I took off the 2010 maximum's to reduce clutter.

Please note that all of the 2011 minimums were not coincident. The minimum system storage for 2011 occurred on 28 January 2011 at 56.8 MAF. The system gained about 0.8 MAF of storage in February due to plains snowmelt so system storage was at 57.6 MAF on 1 March. The takeaway, however, is that prior to the start of the 2011 runoff we had evacuated all of the 2010 flood water and the system was poised for 2011 runoff.

I reposted the presentation on the FTP site at:

<ftp://ftp.usace.army.mil/usace/nwd/MO%20Flooding%20/>

Let me know if you have any questions or concerns.

Jody

-----Original Message-----

From: Anderson, G Witt NWD
Sent: Saturday, June 04, 2011 6:57 PM
To: Farhat, Jody S NWD02
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Absolutely Jody. No hurry on this. Great job on the call as always.

Thank you to you and your team!

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Saturday, June 04, 2011 4:49 PM
To: [REDACTED] NWD
Cc: Tipton, Robert A Col NWD
Subject: Re: Briefing for Sen Thune (UNCLASSIFIED)

Would it be alright if I add it first thing in the morning? Was hoping to get home a bit earlier tonight.

Jody

----- Original Message -----

From: [REDACTED] NWD
To: Farhat, Jody S NWD02
Cc: Tipton, Robert A Col NWD
Sent: Sat Jun 04 16:19:40 2011
Subject: FW: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Jody, a good thought. Maybe just show on existing slides w/ ref mark.

-----Original Message-----

From: Tipton, Robert A Col NWD
Sent: Saturday, June 04, 2011 3:49 PM
To: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

This is a great little brief. I would recommend we add a slide that mirrors slide #4 and slide #6 that shows the elevations we were at in March when we entered the flood season...just to show that we were at the level we were supposed to be (we could probably just show these on the same slide by adding that reference point on each of the diagrams).

Bob

Robert A. Tipton, P.E.
COL, EN
Deputy Commander
Northwestern Division
U.S. Army Corps of Engineers

503-808-3701

-----Original Message-----

From: [REDACTED] NWD
Sent: Saturday, June 04, 2011 3:17 PM
To: Tipton, Robert A Col NWD; [REDACTED] NWD
Subject: FW: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Thursday, June 02, 2011 6:29 PM
To: [REDACTED] NWD
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD; Blechinger, Erik T NWO
Subject: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED], below is a link to my part of the briefing for Sen. Thune.

I talked to Kim Thomas. She said that COL Ruch sent their part of the briefing to BG McMahon earlier this afternoon prior to his phone call with Thune.

ftp://ftp.usace.army.mil/usace/nwd/Mo%20Flooding/BG%20McMahon%202%20June%2011.pptx

Let me know if you have any questions or want any additional information. I'm heading home now, but will be available by phone in about 30 minutes.

VR,
Jody

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

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Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 2:27 PM
To: Farhat, Jody S NWD02
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

That's a negative. I have kept with the story that we had a one day delay for their planning purposes. Since the actual value is about 0.5-0.9 ft below our projected stage, we should still be plenty safe. If there are any future discussions about it, I would appreciate being included since I am directly interfacing with Gov. Dugard on this issue.

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:50 AM
To: [REDACTED] NWO
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Sorry for not passing on the info - I thought you we're in on the discussion yesterday.

----- Original Message -----

From: [REDACTED] NWO
To: Farhat, Jody S NWD02
Sent: Sun Jun 05 05:34:59 2011
Subject: RE: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Ok, I didn't know that there was a change but we will work with it, it still buys us some time.

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 7:34 AM
To: [REDACTED] NWO; [REDACTED] NWD02
Subject: Re: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

We will be going to 105 at 6 pm and to 110 at 10 pm today based on the information we got yesterday. Call me on my cell at 402-350-1417 if you have any questions.
Jody

----- Original Message -----

From: [REDACTED] NWO
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Sent: Sun Jun 05 05:27:54 2011
Subject: Is this hold at 100k at Gavins today Still a go? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I see that the forecast nor the orders have been changed to reflect the modification discussed late Friday night.

Is gavins still planning to hold at 100k today, and when will that change be published?

[REDACTED]
[REDACTED]
Hydraulic Engineer
CENWO-ED-HF
Omaha District, USACE
[REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 2:00 PM
To: Farhat, Jody S NWD02
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Operations at hq. COL smith who is like the opearitions officer at hq

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From: Farhat, Jody S NWD02
To: [REDACTED] NWD
Sent: Sun Jun 05 11:57:46 2011
Subject: RE: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - I'm not good at the acronyms. Who is G3?

I'm supposed to be on a radio interview at that time, but I could probably get someone else to cover that.

Jody

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:47 PM
To: [REDACTED] HQ02; Farhat, Jody S NWD02; [REDACTED] NWD
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Roger. Will do
Jody, please confirm you can attend.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] HQ02
To: [REDACTED] NWD
Sent: Sun Jun 05 11:36:08 2011
Subject: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
We will need someone knowledgeable on current events in your AO on the line for the 0900EDT tomorrow. Can you guys support that? G3 is requesting this.

Thanks.

[REDACTED]
[REDACTED]
MAJ, EN
Operations Officer
USACE Operations Center
[REDACTED] (operations)
[REDACTED] (desk)
CE-UOC@usace.army.mil (operations)
[REDACTED]@usace.army.mil (desk)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:55 PM
To: [REDACTED] NWO
Cc: [REDACTED] NWD; [REDACTED] HQ02; Farhat, Jody S NWD02; [REDACTED]
[REDACTED] NWD; [REDACTED] HQ02
Subject: RE: NWD rep for 0900EDT briefing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

I think it would be prudent to have you on also. 575 may be the topic of the day. Could you be on this call? I or John will MC for NWD and ask you and Jody to contribute.

[REDACTED]

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 11:47 AM
To: [REDACTED] HQ02; Farhat, Jody S NWD02; [REDACTED] NWD
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[REDACTED]

[REDACTED]

[REDACTED]

Operations Officer
USACE Operations Center
[REDACTED] (operations)
[REDACTED] (desk)
[REDACTED]@usace.army.mil (operations)

[REDACTED]@usace.army.mil (desk)

Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

NWO

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Classification: UNCLASSIFIED
Caveats: NONE

Looks good Jody. Would probably be useful to put the MAF of storage in exclusive FC and annual FC zones for each of the 4 projects?

[REDACTED]
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Let me know if you have any questions or concerns.

Jody

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To: Farhat, Jody S NWD02
Cc: Tipton, Robert A Col NWD
Subject: RE: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
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Absolutely Jody. No hurry on this. Great job on the call as always.

Thank you to you and your team!

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Saturday, June 04, 2011 4:49 PM
To: [REDACTED] NWD
Cc: Tipton, Robert A Col NWD
Subject: Re: Briefing for Sen Thune (UNCLASSIFIED)

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To: Farhat, Jody S NWD02
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Classification: UNCLASSIFIED

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Bob

Robert A. Tipton, P.E.
COL, EN
Deputy Commander
Northwestern Division
U.S. Army Corps of Engineers

503-808-3701

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From: [REDACTED] NWD
Sent: Saturday, June 04, 2011 3:17 PM
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Subject: FW: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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From: Farhat, Jody S NWD02
Sent: Thursday, June 02, 2011 6:29 PM
To: [REDACTED] NWD
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED],
[REDACTED] NWD; Blechinger, Erik T NWO
Subject: Briefing for Sen Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Witt, below is a link to my part of the briefing for Sen. Thune.

I talked to [REDACTED]. She said that COL Ruch sent their part of the briefing to BG McMahon earlier this afternoon prior to his phone call with Thune.

<ftp://ftp.usace.army.mil/usace/nwd/Mo%20Flooding/BG%20McMahon%20%20June%2011.pptx>

Let me know if you have any questions or want any additional information. I'm heading home now, but will be available by phone in about 30 minutes.

VR,
Jody

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:47 PM
To: [REDACTED] HQ02; Farhat, Jody S NWD02; [REDACTED] NWD
Subject: Re: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

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Jody, please confirm you can attend.

Message sent via my BlackBerry Wireless Device

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To: [REDACTED] NWD
Sent: Sun Jun 05 11:36:08 2011
Subject: NWD rep for 0900EDT breifing on 06JUN11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

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[REDACTED]
[REDACTED]
[REDACTED]
Operations Officer
USACE Operations Center
[REDACTED] (operations)
[REDACTED] (desk)
CE-UOC@usace.army.mil (operations)
[REDACTED]@usace.army.mil (desk)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 1:41 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: FW: June 5 Missouri River Discharge Measurement (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

All:

This is USGS information.

[REDACTED]
-----Original Message-----

From: Paul L Provencher [<mailto:pprovenc@usgs.gov>]
Sent: Sunday, June 05, 2011 9:57 AM
To: Wayne R Berkas; Melvin K White; [REDACTED] NWO; [REDACTED] NWO
Cc: Paul L Provencher; Robert G Legare; Arthur W Johnson; Tyrel F Brandt
Subject: June 5 Missouri River Discharge Measurement

The June 5, 2011, Missouri River below Fort Peck Dam discharge measurement was obtained just south of Rodney Adkin's farmyard. The discharge includes the Powerhouse and Spillway releases along with the Milk River discharge.

We obtained Latitude and Longitude readings incase if anyone wishes to know exact spot on river, Latitude 48 01 898 longitude 106 14 888.

Measurement Start time: 0801

Measurement End time 0822

Total Discharge 48,700 cfs

Paul L Provencher
Field Office Chief
USGS Montana Water Science Center - Fort Peck P.O. Box 124 Fort Peck, MT 59223
(406) 526-3532
pprovenc@usgs.gov

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Blechinger, Erik T NWO
Sent: Sunday, June 05, 2011 1:30 PM
To: [REDACTED] NWO; Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Subject: Re: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

[REDACTED] has the lead on JIC as I am with [REDACTED] heading to Hamburg.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] NWO
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Sent: Sun Jun 05 09:45:50 2011
Subject: Re: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

All:

I will be meeting with sen nelson at 1300, providing a "mini-cmt" brief of all things nebraska, and then taking him to the jic and introducing him there.

I'll follow w/ a q and a, and should be done.

Ted

----- Original Message -----

From: Quinn, Kevin R NWO
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Sent: Sun Jun 05 09:42:19 2011
Subject: RE: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

THINGS HAVE CHANGED: Kim Thomas is traveling to the site of the levee breach. Will she return in time to do the briefing of Senator Nelson? If not, what is Plan B? Please apprise. kq

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 5:42 PM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO

Subject: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Tomorrow at 3 pm, Senator Ben Nelson will visit the district. He will be greeted at the door by Erik Blechinger and [REDACTED]. They will accompany him to the EOC, where Kim Thomas will brief him. Erik, [REDACTED], John Bertino and Jody Farhat should attend the briefing. Those working in the room may stay and work, but be advised that media may attend and it could get crowded.

After the briefing the Senator will be taken to the JIC before he departs.

PAO will escort any media to the EOC.

Questions?

Kevin Quinn
PAO Specialist
995-2419

-----Original Message-----

From: Eckert Uptmor, Kayla A NWO

Sent: Saturday, June 04, 2011 12:59 PM

To: Quinn, Kevin R NWO

Cc: Blechinger, Erik T NWO; [REDACTED] NWO; [REDACTED] NWO

Subject: RE: (UNCLASSIFIED)

Kevin - please go ahead and call Dayle Williamson. He is staffer handling the visit and he can articulate the media needs. His number is: Cell 4024506690. Work phone 4024413178.

[REDACTED]
-----Original Message-----

From: Quinn, Kevin R NWO

Sent: Saturday, June 04, 2011 12:17 PM

To: [REDACTED] NWO; [REDACTED] NWO

Subject: (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] and [REDACTED]--I am handling PAO duties for Sen. Nelson visit. Please advise me as to whatever your PAO needs are. I may need to contact Nelson staffers-do you have a number of someone who is working it? Do you know if he is sending out a news release? I'd be interested in anything you can share about the visit.

Thanks kq
402-995-2419
402-779-1450

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Williamson, Eileen L NWO
Sent: Sunday, June 05, 2011 1:28 PM
To: Farmer, Monique L NWO
Cc: Farhat, Jody S NWD02
Subject: Quote from Jody (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Here is what I ended up using to get it down to 420 characters

The word efficient, in this case, meaning the best possible manner ☺

"Scheduled releases help manage efficient flow through the Missouri River system by evacuating floodwaters from reservoirs and maintaining the safety of these dams. Our maps show areas of potential inundation during times when releases reach 150,000 cfs. The current schedule does not project releases above 150,000 cfs. Weather changes can affect the release forecast." Jody Farhat, Chief Mo. River Basin Water Mgt

Eileen L. Williamson
Public Affairs Specialist
U.S. Army Corps of Engineers
Office: 402-995-2417
Mobile: 402-779-1448
eileen.l.williamson@usace.army.mil
Internet: nwo.usace.army.mil
Facebook: [facebook.com/OmahaUSACE](https://www.facebook.com/OmahaUSACE)
Twitter: twitter.com/OmahaUSACE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:14 PM
To: [REDACTED] NWD
Cc: [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; Tipton, Robert A Col NWD; [REDACTED] NWD
Subject: RE: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks [REDACTED]. I had similar thought, but with failure today of fed levee and with what we are yet to experience, I doubt that will be a significant issue. I think part 2 for Missouri does need to have study framework commensurate with the independent authorities and operational aspects of the Missouri.

-----Original Message-----

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 11:01 AM
To: [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] HQ@NWD
Subject: RE: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My quick review indicates to me that by combining Missouri River study as a part of a Mississippi and Ohio Rivers, Missouri River may not get high priority for funding compared to the other two rivers. It will be good if a separate and independent study following the same or similar framework would be better for NWD.

[REDACTED]
Chief, Business Technical Division
Northwestern Division, U.S. Army Corps of Engineers
Phone: [REDACTED]
Cell: [REDACTED]
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWD
Sent: Saturday, June 04, 2011 7:16 PM
To: [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD
[REDACTED] NWD

Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED]
NWK; [REDACTED] HQ@NWD
Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Please take a look. I reviewed this eve and my initial impression is this a very good approach. Can add lots of details, areas to address, specific questions....which could certainly be province of PgMP/PMPs.

Feed any thoughts to me and I'll get back with CG.

Those of you in the deep fight - no need to be distracted by this.

Thanks,

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: McMahon, John R BG NWD

To: [REDACTED] NWD

Sent: Sat Jun 04 13:24:58 2011

Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Witt:

Please review. Thanks.

Vr/john

----- Original Message -----

From: Grisoli, William T MG HQ02

To: Walsh, Michael J MG MVD; Peabody, John W MG LRDOR; McMahon, John R BG NWD; Kula, Thomas BG SWD; Drolet, John D. COL LRDOR

Cc: Temple, Bo M MG HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02

Sent: Sat Jun 04 12:28:54 2011

Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Commanders:

For the past two weeks, We have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

The effort will utilize current authorities, policies, procedures, tools and terminology, and be conducted by USACE staff, supplemented by contracted staff, as appropriate, and generally follow the robust review and independence tenets of EC 1165-2-209. We are still working on a "straw-man" PMP that would guide the field's efforts and the details on staffing requirements.

I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to [REDACTED], and I.

V/R,
Bill

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Sunday, June 05, 2011 1:11 PM
To: Lazo, Carlos J SPK
Cc: Johnston, Paul T HQ@ NWO; Oldham, Margaret NWO; Farhat, Jody S NWD02
Subject: [REDACTED] - CNN Interview (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks Carlos.

Jody:

FYSA

-----Original Message-----

From: Lazo, Carlos J SPK
Sent: Sunday, June 05, 2011 1:07 PM
To: Farmer, Monique L NWO
Cc: [REDACTED] NWO; Blechinger, Erik T NWO; [REDACTED] NWO
Subject: RE: Public Affairs Coordination for levee Breaches (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

ALCON,

Media interview with NBC Nightly News complete. Reporter mentioned that they will remain in the AO for the next couple of days. Information is below.

1. **OUTLET:** NBC (Nightly News) Media Interview
DATE: 05 JUNE 2011
REPORTER: Miguel Almaguar
SME: [REDACTED] (PM)
TYPE: VIDEO
BROADCAST: 1730 LOCAL TIME (NBC)

QUESTIONS:

1. Ever seen anything like this?
2. Is this a record?
3. What's the stress like on the dams?
4. Are the levees good to go?
5. Is there a potential for flooding?
6. What about the criticism about water releases?
7. Was there record snowpack?
8. Is there a long-term threat?
9. These increased releases are long-term?

NOTES:

SME explained/mentioned the following: the yearly process of water releases; reiterating the record level of rainfall; mentioned 24-hour surveillance of dams; continued coordination between the Corps and affected states; Reporter stayed on topic throughout interview. Overall interview: POSITIVE.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: (916) 307-8738
carlos.j.lazo@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 11:16 AM
To: Lazo, Carlos J SPK; Williamson, Eileen L NWO; [REDACTED] LRC; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Subject: Re: Public Affairs Coordination for levee Breaches (UNCLASSIFIED)

All media on this goes through Erik or I.

[REDACTED]
Chief, Readiness Branch
[REDACTED]

----- Original Message -----

From: Lazo, Carlos J SPK
To: Williamson, Eileen L NWO; [REDACTED] LRC; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Cc: [REDACTED] NWO
Sent: Sun Jun 05 09:10:59 2011
Subject: RE: Public Affairs Coordination for levee Breaches (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can we all please be cc'd on this. I'm receiving National media up here as well and need those ASAP. Also need a response for moving forward on the NBC Nightly News interview request in Fort Pierre.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: (916) 307-8738
carlos.j.lazo@usace.army.mil

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Sunday, June 05, 2011 11:07 AM
To: [REDACTED] LRC; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Cc: [REDACTED] NWO
Subject: RE: Public Affairs Coordination for levee Breaches (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I am forwarding to [REDACTED] in EM for the parts she can answer now.
I do not know who is working the JIC side of things.

-----Original Message-----

So work is not being duplicated, who is working on talking points, Q & A's, etc.? Can anyone please share what has already been worked on with the JIC, so that we can answer the incoming media calls? Also, for potential interviews, who are the SME's for these levees? We have nationwide press contacting us already, such as CNN, who should be responding? Can we please receive a copy of the press release that just went out?

Questions that need answered ASAP:

What is the current situation/ magnitude of impact?

Were the levees not built properly?

Why did the levees 'fail'?

What is the Corps doing now?

What precautions are being taken?

How long will this area be flooded?

When can residents return?

How long will I-29 be closed?

ETC...

Thank you,

Sarah D. Gross
Public Affairs Specialist
U.S. Army Corps of Engineers, Chicago District
111 N. Canal St., Chicago IL, 60606
Sarah.D.Gross@usace.army.mil
Office: 312-846-5334
Mobile: 312-659-4354
<http://facebook.com/usacechicago>
<http://www.flickr.com/photos/usacechicago>
Great Lakes and Mississippi River Interbasin Study (GLMRIS):
<http://glmr.is.anl.gov>
<http://facebook.com/glmris>

Classification: UNCLASSIFIED

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Sunday, June 05, 2011 1:01 PM
To: [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02;
Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED]
[REDACTED] NWD; [REDACTED] NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED]
[REDACTED] NWK; [REDACTED] HQ@NWD
Subject: RE: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
My quick review indicates to me that by combining Missouri River study as a part of a Mississippi and Ohio Rivers, Missouri River may not get high priority for funding compared to the other two rivers. It will be good if a separate and independent study following the same or similar framework would be better for NWD.

[REDACTED]
[REDACTED]
Chief, Business Technical Division
Northwestern Division, U.S. Army Corps of Engineers
Phone: [REDACTED]
Cell: [REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: [REDACTED] NWD
Sent: Saturday, June 04, 2011 7:16 PM
To: [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED]
[REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED]
NWK; [REDACTED] HQ@NWD
Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Please take a look. I reviewed this eve and my initial impression is this a very good approach. Can add lots of details, areas to address, specific questions....which could certainly be province of PgMP/PMPs.

Feed any thoughts to me and I'll get back with CG.

Those of you in the deep fight - no need to be distracted by this.

Thanks,

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: McMahon, John R BG NWD

To: [REDACTED] t NWD

Sent: Sat Jun 04 13:24:58 2011

Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

[REDACTED]
Please review. Thanks.

Vr/john

----- Original Message -----

From: Grisoli, William T MG HQ02

To: Walsh, Michael J MG MVD; Peabody, John W MG LRDOR; McMahon, John R BG NWD; Kula, Thomas BG SWD; Drolet, John D. COL LRDOR

Cc: Temple, Bo M MG HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02

Sent: Sat Jun 04 12:28:54 2011

Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Commanders:

For the past two weeks, we have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

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I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to Mike Ensich, James Dalton, Karen DA, Steve Stockton, and I.

V/R,
Bill

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED]
Sent: Sunday, June 05, 2011 12:26 PM
To: Farhat, Jody S NWD02
Subject: Thanks

Jody, life is hectic, people love to second guess. You are doing very good.

Thanks,
Don Jorgensen

From: [REDACTED] NWD02
Sent: Sunday, June 05, 2011 12:25 PM
To: Farhat, Jody S NWD02
Subject: RE: MRFLOOD - 5 Jun 1500hrs Daily CMT -- Brief of Joplin Tornado and Flood Fight (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Yes.

Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE

(fax)

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Sunday, June 05, 2011 11:56 AM

To: [REDACTED] NWD02

Subject: FW: MRFL00D - 5 Jun 1500hrs Daily CMT -- Brief of Joplin Tornado and Flood Fight (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

██████ - can you do the NWK brief today? I've got to meet with Sen Nelson in the NWO EOC.

-----Original Message-----

From: [REDACTED] NWK

Sent: Sunday, June 05, 2011 9:54 AM

To: [REDACTED] NWK; [REDACTED] NWK; DLL-NWK-CMT; West, Edward R; DLL-NWK-EOC-BC;

NWK; [REDACTED] NWK; [REDACTED] NWK; Farhat, Jody S

NWD02; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED]

NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK;

[REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK;

[REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK;

██████████ NWK; Blechinger, Erik T NWO; ██████████ NWD; Tipton, Robert A Col NWD;

CENWO-EOC NWO

Cc: Hofmann, Anthony J COL NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED]

██████████ NWK; ██████████ NWK; Thomas, Donald G; ██████████ NWP; Burns, Steven R; Ross,

[REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED]

NWK; [REDACTED] NWK; CENWD-EOC NWD; [REDACTED] NWW; 'dan.nietfeld@noaa.gov';

NWK

Subject: MRFLOOD - 5 Jun 1500hrs Daily CMT -- Brief of Joplin Tornado and Flood Fight
(UNCLASSIFIED)

We will be conducting today's CMT Briefings at 1500 for the Joplin Tornado Response and Flood Fight.

For clarification you will need to log in to the webmeeting to view the slides, and then call in to the conference call to hear the discussion:

WebMeeting Information:
<https://webmeeting.att.com>

Meeting Number: 8886752535
Code: 1762917
You will be a Participant.

Call-In Number
1-888-675-2535
Access code: 1762917#
Security Code: 1234#

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Williamson, Eileen L NWO
Sent: Sunday, June 05, 2011 12:21 PM
To: DLL-CENWO-ALL Employees; DLL-CENWD Zorinsky-Floor 3
Subject: FW: Riverwatch June 5, 2011 #2011MoRivFlood (UNCLASSIFIED)
Attachments: 605NR-RIVERWATCH6-11.pdf

Classification: UNCLASSIFIED

Caveats: NONE

-----Original Message-----

From: US Army Corps of Engineers Omaha District [mailto:eileen.l.williamson@usace.army.mil]
Sent: Sunday, June 05, 2011 11:25 AM
To: Williamson, Eileen L NWO
Subject: Riverwatch June 5, 2011 #2011MoRivFlood

Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT) Fort Peck(In operation since 1940) Midnight Elevation

- * 2250.3 ft msl
- * 24-hr Change (+0.1ft)

Daily Avg. Inflow

- * 46,000 cfs (4 Jun)
- * 56,000 cfs (3 Jun)

Daily Avg. Release

- * 27,500 cfs (4 Jun)
- * 19,000 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

- * 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

- * 1853.6 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 120,000 cfs (4 Jun)

* 133,000 cfs (3 Jun)

Daily Avg. Release

* 114,300 cfs (4 Jun)

* 113,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.35 (0815 CDT 5 Jun)

* Flood stage - 16 ft

* 17.24 (0830 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.0 ft)

Daily Avg. Inflow

* 110,000 cfs (4 Jun)

* 104,000 cfs (3 Jun)

Daily Avg. Release

* 111,800 cfs (4 Jun)

* 94,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 17.88 (0845 CDT 5 Jun)

* Flood stage - 15 ft

* 16.38 (0815 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 96,000 cfs (4 Jun)

* 83,000 cfs (3 Jun)

Daily Avg. Release

* 102,300 cfs (4 Jun)

* 89,100 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.4 ft msl

* 24-hr Change (+0.3 ft)

Daily Avg. Inflow

* 108,000 cfs (4 Jun)

* 97,000 cfs (3 Jun)

Daily Avg. Release

* 100,500 cfs (4 Jun)

* 91,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.2 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 92,000 cfs (4 Jun)

* 83,000 cfs (3 Jun)

Daily Avg. Release

* 92,900 cfs (4 Jun)

* 84,900 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

24-hr forecast (Glasgow, MT)

Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.

Tonight: Partly cloudy, with a low around 58. North northwest wind between 10 and 14 mph, with gusts as high as 18 mph.

Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind between 13 and 23 mph, with gusts as high as 31 mph.

24-hr forecast (Riverdale, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.

Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.

24-hr forecast (Washburn, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.

24-hr forecast (Bismarck/Mandan, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.

24-hr forecast (Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Ft. Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Lower Brule, SD)

Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.

Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.

24-hr forecast (Chamberlain, SD)

Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.

Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.

24-hr forecast (Yankton, SD)

Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.

24-hr forecast (Sioux City, IA)

Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.

24-hr forecast (Omaha, NE)

Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.

Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.

Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Classification: UNCLASSIFIED

Caveats: NONE



Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
<p>Midnight Elevation</p> <ul style="list-style-type: none"> 2250.3 ft msl 24-hr Change (+0.1ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 46,000 cfs (4 Jun) 56,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 27,500 cfs (4 Jun) 19,000 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 2234 ft msl – 2246 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 2246 ft msl – 2250 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 2250 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Peak release will be 50,000 cfs by no later than mid June. Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 35,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 50,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1853.6 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 120,000 cfs (4 Jun) 133,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 114,300 cfs (4 Jun) 113,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1837.5 ft msl – 1850 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1850 ft msl – 1854 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1854 ft msl <p>River Stage (Bismarck)</p> <ul style="list-style-type: none"> 17.35 (0815 CDT 5 Jun) Flood stage – 16 ft 17.24 (0830 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised. First time in history, spillway gates will be used to pass floodwaters. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 65,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1619.2 ft msl 24-hr Change (+0.0 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 110,000 cfs (4 Jun) 104,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 111,800 cfs (4 Jun) 94,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1607.5 ft msl – 1620 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1617 ft msl – 1620 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1620 ft msl <p>River Stage (Pierre)</p> <ul style="list-style-type: none"> 17.88 (0845 CDT 5 Jun) Flood stage – 15 ft 16.38 (0815 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 59,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1419.4 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 96,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 102,300 cfs (4 Jun) 89,100 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1420 ft msl – 1423 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1422 ft msl – 1423 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1423 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will remain essentially level at 1420 feet. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 74,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1360.4 ft msl 24-hr Change (+0.3 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 108,000 cfs (4 Jun) 97,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 100,500 cfs (4 Jun) 91,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1350 ft msl – 1375 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1365 ft msl – 1375 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1375 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 67,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1206.2 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 92,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 92,900 cfs (4 Jun) 84,900 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1204.5 ft msl – 1210 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1208 ft msl – 1210 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1210 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 70,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June)



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.</p> <p>Tonight: Partly cloudy, with a low around 58. North northwest wind between 10 and 14 mph, with gusts as high as 18 mph.</p> <p>Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind between 13 and 23 mph, with gusts as high as 31 mph.</p>	<p>24-hr forecast (Riverdale, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.</p> <p>Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.</p> <p>24-hr forecast (Washburn, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.</p>	<p>24-hr forecast (Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.</p> <p>Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.</p> <p>Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.</p> <p>Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>



Missouri River Flooding (Logistics) (Updated 5 Jun; 0935 CDT)

Personnel Deployed

5 (Glasgow, MT)	5 (Pierre, SD)	2 (Missouri River Survey)
8 (Lander, WY)	1 (Kansas City, MO)	1 (Decatur, NE)
16 (Bismarck, ND)	5 (Sioux City, IA)	3 (Offutt, NE)
6 (Fort Yates, ND)	4 (Dakota Dunes, SD)	6 (North Platte, NE)
4 (Williston, ND)	6 (S. Sioux City, NE)	1 (Roundup, MT)
1 (Minot, ND)		1 (Dakota City, SD)

Equipment Deployed 4 June 0930 hrs

HESCO Issued: 30,360 LF On Hand: 10,570 LF (9715 LF-4' and 855 LF of 3') Projected Outstanding Requirements: 41,430 LF Currently working on: 20,000 LF due in from Louisiana 4 Jun	Sandbags Issued: 13.2 M On Hand: 1,144,500 Projected Outstanding Requirements: 7,885,000 M 1.5 M due in tomorrow District Contracting has 2.5 M due in from vendor 8 Jun 650K due in from CENWS
Poly Rolls Issued: 1500 rolls On Hand: 666 rolls. Projected Outstanding Requirements: 2500 rolls District Contracting obtained 1200 rolls, will be here by 7 Jun Contract awarded for 1500 rolls 400 rolls 700 rolls coming in from MN	
Pumps Issued: 16 pumps On Hand: ZERO Projected Outstanding Requirements: 12 pumps 7 pumps returning from LA by 6 Jun	
Additional Supplies due in: 1280 LF of RDFW from LA 1K ea 2K sandbags from LA	

Source of information: CMT Brief (4 Jun 11)

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 12:10 PM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR; Farhat, Jody S
NWD02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED]
W HQ02; [REDACTED] LRH; [REDACTED] LRH; [REDACTED] MVM
Cc: [REDACTED] NWO; [REDACTED] NWD02; Farhat, Jody S NWD02; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD-OMAHA; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02;
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO;
[REDACTED] RMC; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED]
E MVD
Subject: Missouri River Basin Water Management Division Situation Report of 6-5-11
(UNCLASSIFIED)
Attachments: Missouri River Basin Water Management Situation Report 6-5-11.docx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] Eileen,

Today's NWD Water Management situation report is attached.

[REDACTED]
Missouri Basin Water Management Division
Northwestern Division
Corps of Engineers
[REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Basin Water Management Situation Report – 6-5-11

Reservoir Conditions

The upper three reservoirs of the Missouri River Mainstem Reservoir System provide the bulk of the storage of water. All three are in their exclusive flood control zones, with Fort Peck passing its spillway crest (continuing up on raised spillway gates) and the other two being near their spillway crests. Table 1 summarizes the situation as of 0000 hours this morning. More details on the reservoirs can be found on the daily bulletin prepared by the Missouri River Basin Water Management Division at:

<http://www.nwd-mr.usace.army.mil/rcc/reports/showrep.cgi?4BULLOMR1>.

Table 1. Key Reservoir Data (through 0000 hrs 6/5/11)

Reservoir	Inflow kcfs	Outflow kcfs	Top of Spillway Gates feet msl	Current Level feet msl	24-hr Change feet
Fort Peck	46.0	27.5	2250	2250.3	0.1
Garrison	120.0	114.3	1854	1853.6	-0.1
Oahe	110.0	111.8	1620	1619.2	0.0
Big Bend	96.0	102.3	1423	1419.4	-0.1
Fort Randall	108.0	100.5	1375	1360.4	0.3
Gavins Point	92.0	92.9	1210	1206.2	-0.1

Based on the current level data on the upper three reservoirs, the amount of remaining storage has diminished or is diminishing. One way to characterize this factor is to compute the percent of the exclusive flood control zone that is remaining to store water before water passes uncontrolled over the spillway gates. The lower three reservoirs have much less capability to store the inflows that are coming into the Missouri River Mainstem Reservoir System, with Fort Randall Reservoir having the greater amount. As of today, the stored water has not yet entered the exclusive flood control zones of the three smaller reservoirs; therefore, 100 percent of their exclusive flood control storage remains available. Table 2 summarizes the storage volumes of all six System reservoirs, with the last column listing the amount of exclusive flood control storage that remains as of today. Spillways are now being used at five of the six reservoirs, with no plans to use Oahe spillway at this time. Because the spillway gates are open at Fort Peck and Garrison, the percent of exclusive has become negative at Fort Peck and may become negative over the next day or two at Garrison, as water follows the raised gates. A positive number must always appear for Oahe as long as the spillway gates remain closed at that project.

Table 2. Reservoir Storage Data (through 0000 hrs 6/5/11)

Reservoir	Current kAF	Total kAF	Remaining kAF	Exclusive kAF	% Excl Left
Fort Peck	18,543	18,463	-80	971	-8
Garrison	23,735	23,821	86	1,489	6
Oahe	22,791	23,137	346	1,102	31
Big Bend	1,580	1,798	218	60	100
Fort Randall	3,997	5,418	1,421	985	100
Gavins Point	347	450	103	57	100

Releases from the five of the six reservoirs are currently exceeding records prior to 2011. The sixth, Fort Peck Reservoir, will exceed its record release within the next week. Table 3 provides release data for all six reservoirs to provide some perspective on the changes that will be happening over the next 2 weeks. A full listing of the data through mid-July is available at: <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>.

Table 3. Reservoir Release Comparisons (through 0000 hours 6/5/11)

Reservoir	Yesterday	Forecast Today	7 days out 12 June	14 days out 19 June	Pre-2011 Record
	kcfs	kcfs	kcfs	kcfs	kcfs
Fort Peck	27.5	40.0	50	50	35
Garrison	114.3	115.0	135	150	65
Oahe	111.8	130.0	150	150	59
Big Bend	102.3	130.0	150	150	74
Fort Randall	100.5	117.0	143	148	67
Gavins Point	92.9	110.0	145	150	70

River Conditions

Levees are currently being conducted in six cities from Bismarck/Mandan, ND to South Sioux City, NE, resulting primarily from the releases from Garrison, Oahe, and Gavins Point Dams. Many communities along the lower Missouri River are currently experiencing Missouri River flows that are above flood stage by several feet. The flood stages currently being experienced will be exceeded as Missouri River Mainstem Reservoir System releases increase over the next few weeks to pass the anticipated inflows from mountain snowpack runoff and heavy rains in the Missouri River basin. Table 4 summarizes the current conditions as of 0600 hours this morning and the Corps' current forecast for crest stages.

Table 4. Missouri River Stage Data for 6/5/11 at 0600 CDT

Location	Flood Stage	Current Stage	Forecast Crest Stage	Date of Crest Stage
Bismarck, ND	16	17.4	20-21	mid-Jun
Pierre, SD	13	17.6	18.7	mid-Jun
Sioux City, IA	30	29.1	35-37	mid-Jun thru July
Decatur, NE	35	34.3	40-42	mid-Jun thru July
Omaha, NE	29	29.8	34-36	mid-Jun thru July
Nebraska City, NE	18	23.1	27-28+	mid-Jun thru July
St. Joseph, MO	17	21.8	27-32	mid-Jun thru July
Kansas City, MO	32	26.7	30-39	mid-Jun thru July
Waverly, MO	20	25.8	27-31	mid-Jun thru July
Boonville, MO	21	24.0	27-33	mid-Jun thru July
Hermann, MO	21	23.2	27-33	mid-Jun thru July

Information on Current Mountain Snowpack and Forecasted Rainfall

Releases from the System reservoirs are based on snowpack and rainfall forecasts in the Missouri River basin. An updated snowfall forecast has not yet been prepared today; however, the Hydrologic Prediction Center (HPC) of NOAA prepares a rainfall forecast daily for up to the next 5 days, with an accumulated figure also presented on its website. Figure 1 is the accumulated 5-day rainfall forecast released today by HPC, and Figure 2 is yesterday's mountain snowpack update compiled by the Corps.

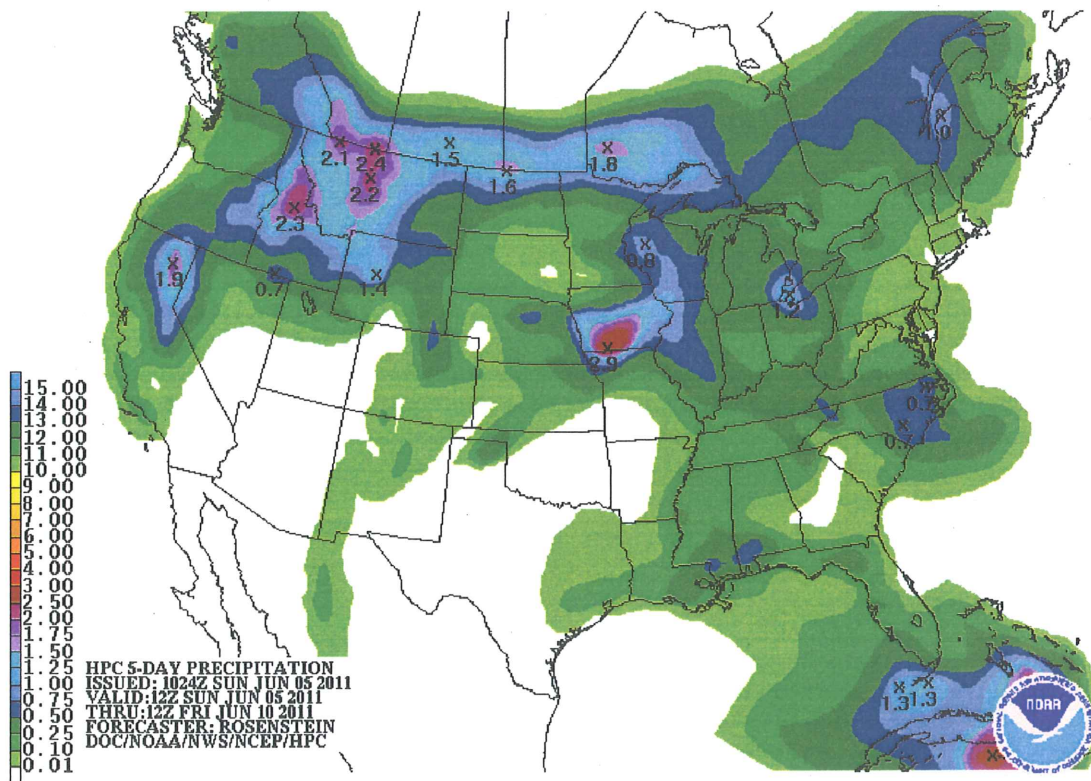


Figure 1. 5-day total QPF ending 0700 Friday, June 10, 2011.

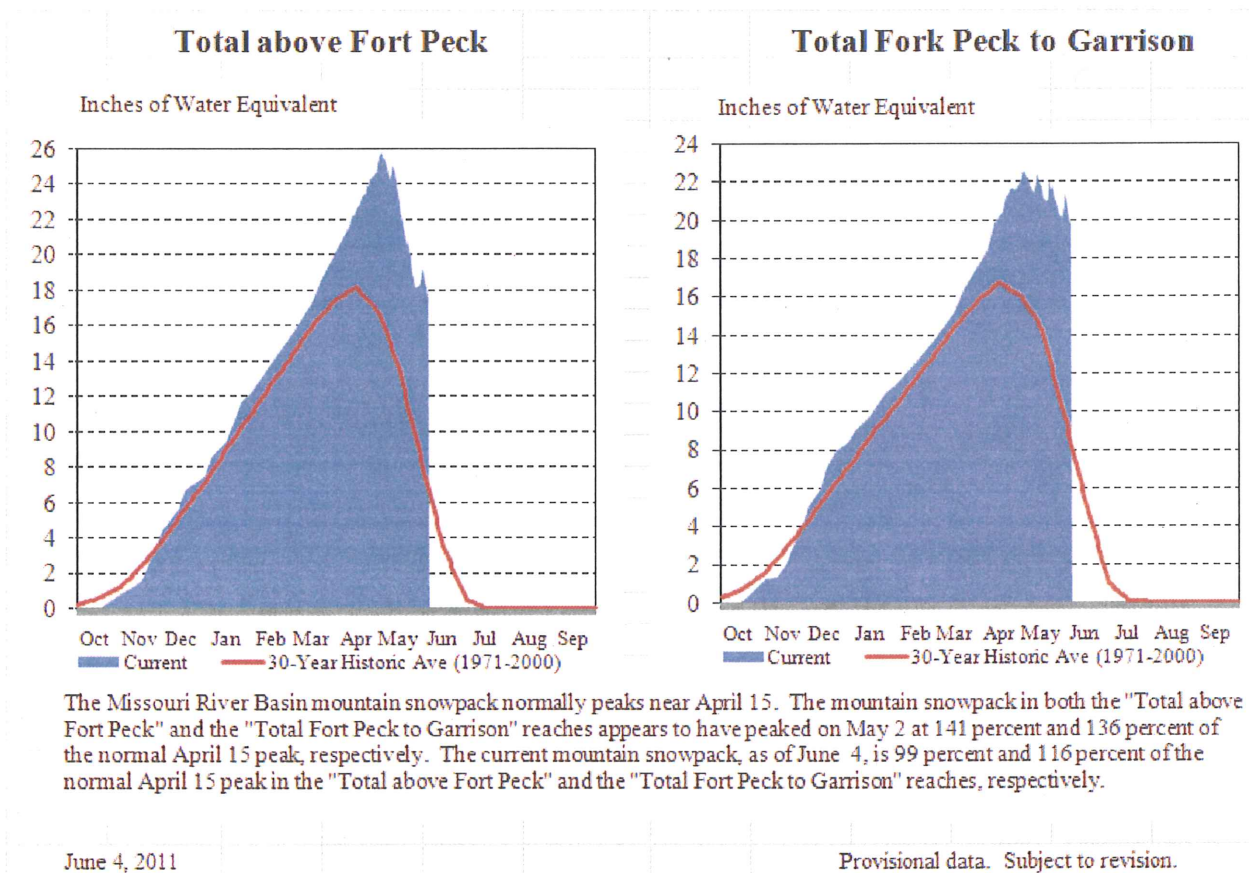


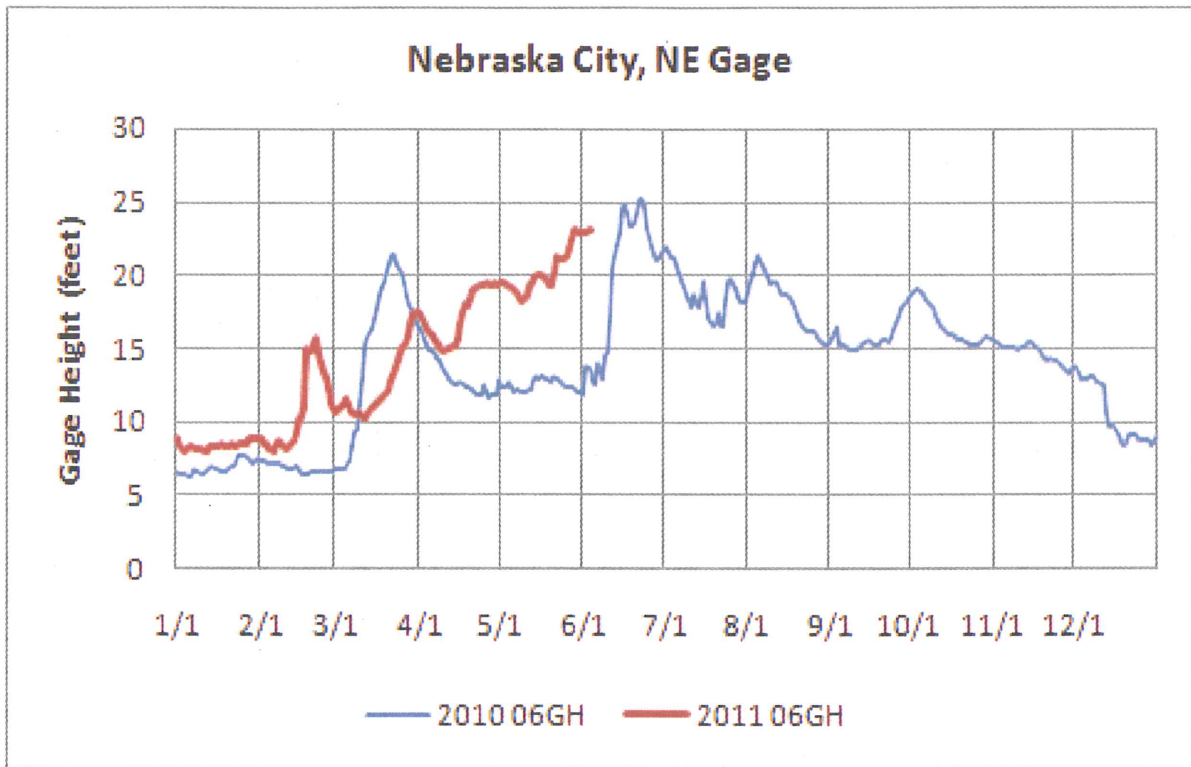
Figure 2. Missouri River basin mountain snowpack water content summary, 2010-2011 – June 4, 2011.

Actions Underway to Prepare for the Releases

Actions continue to prepare for the already high flows on the Missouri River and those that will result from the increased releases from the Missouri River Mainstem System reservoirs. The Omaha District continues to work with the cities of Bismarck (levee completed)/Mandan, ND, Pierre/Ft. Pierre, SD, Dakota Dunes, SD, and South Sioux City, NE to construct levees to limit flood impacts to those cities. Floodplain evacuations have been ongoing for many lower-lying areas along the lower Missouri River.

Floodplain inundation maps have been posted by the Omaha District to identify the areas of potential flooding for the emergency managers and the public. The current schedule for posting of the Kansas City District's floodplain inundation maps is Monday, June 6. Overtopping of levees information is also available from both districts.

The first levee failure on the lower Missouri River occurred this morning as some minor repairs were being made nearby to levee unit L-575 just south of the Iowa/Missouri state line. Actions are being taken yet this morning to establish a contract and get a repair done as soon as possible. The town of Hamburg is being evacuated and Interstate 29 is being closed as precautionary measures at this time. Figure 3 is a plot showing the nearest gage 0600 stages for 2010 and 2011, both years with high river stages at Nebraska City. This figure shows that the river is nearing the maximum stages experienced last year.



NWO

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 12:03 PM
To: DLL-CENWD-PDR; [REDACTED] NWO
Subject: FW: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)
Attachments: Hamburg_Levee_Erosion_20110604_Op.pdf

Classification: UNCLASSIFIED
Caveats: FOUO

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 9:14 AM
To: DLL-HQ-UOCInternal; [REDACTED] HQ02; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED]
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,

Who: US Army Corps of Engineers, Omaha District
What: Levee Breach - Missouri River Levee - L-575
When: 05 June 2011 at 0900
Where: Near Hamburg, IA, River Mile 552.5, Atchison County, MO
Why: A full levee breach has occurred on Missouri River Federal Levee L-575. USACE contractors and personnel were onsite 100' South of the breach working the issue from yesterday. This is a new area, not the one that was noticed yesterday. All personnel are evacuating. The States of Missouri and Iowa Emergency Management Agencies have been identified as well as the local emergency managers. More to follow as it becomes available.

Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil



NWO

From: Quinn, Kevin R NWO
Sent: Sunday, June 05, 2011 11:50 AM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: Johnson, Greg NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Subject: RE: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The Senator invited media. Maggie and I will be on the lookout for them. I was told yesterday the Senator would make a statement to the press after his briefing. We'll be standing by to help with that. kq

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 11:46 AM
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Subject: Re: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

All:

I will be meeting with sen nelson at 1300, providing a "mini-cmt" brief of all things nebraska, and then taking him to the jic and introducing him there.

I'll follow w/ a q and a, and should be done.
[REDACTED]

----- Original Message -----

From: Quinn, Kevin R NWO
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Sent: Sun Jun 05 09:42:19 2011
Subject: RE: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

THINGS HAVE CHANGED: Kim Thomas is traveling to the site of the levee breach. Will she return in time to do the briefing of Senator Nelson? If not, what is Plan B? Please apprise. kq

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 5:42 PM

To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO
Subject: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Tomorrow at 3 pm, Senator Ben Nelson will visit the district. He will be greeted at the door by Erik Blechinger and Ted Streckfuss. They will accompany him to the EOC, where Kim Thomas will brief him. Erik, Ted, John Bertino and Jody Farhat should attend the briefing. Those working in the room may stay and work, but be advised that media may attend and it could get crowded.

After the briefing the Senator will be taken to the JIC before he departs. PAO will escort any media to the EOC.

Questions?

Kevin Quinn
PAO Specialist
995-2419

-----Original Message-----

From: [REDACTED] NWO
Sent: Saturday, June 04, 2011 12:59 PM
To: Quinn, Kevin R NWO
Cc: Blechinger, Erik T NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: (UNCLASSIFIED)

Kevin - please go ahead and call Dayle Williamson. He is staffer handling the visit and he can articulate the media needs. His number is: Cell 4024506690. Work phone 4024413178.

[REDACTED]
-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 12:17 PM
To: [REDACTED] NWO; [REDACTED] NWO
Subject: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] and [REDACTED]--I am handling PAO duties for Sen. Nelson visit. Please advise me as to whatever your PAO needs are. I may need to contact Nelson staffers--do you have a number of someone who is working it? Do you know if he is sending out a news release? I'd be interested in anything you can share about the visit.

Thanks kq
402-995-2419
402-779-1450

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 11:46 AM
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Subject: Re: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

All:

I will be meeting with sen nelson at 1300, providing a "mini-cmt" brief of all things nebraska, and then taking him to the jic and introducing him there.

I'll follow w/ a q and a, and should be done.

Ted

----- Original Message -----

From: Quinn, Kevin R NWO
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Sent: Sun Jun 05 09:42:19 2011
Subject: RE: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

THINGS HAVE CHANGED: Kim Thomas is traveling to the site of the levee breach. Will she return in time to do the briefing of Senator Nelson? If not, what is Plan B? Please apprise. kq

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 5:42 PM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO
Subject: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Tomorrow at 3 pm, Senator Ben Nelson will visit the district. He will be greeted at the door by Erik Blechinger and [REDACTED]. They will accompany him to the EOC, where Kim Thomas will brief him. Erik, [REDACTED], John Bertino and Jody Farhat should attend the briefing. Those working in the room may stay and work, but be advised that media may attend and it could get crowded.

After the briefing the Senator will be taken to the JIC before he departs. PAO will escort any media to the EOC.

Questions?

Kevin Quinn
PAO Specialist
995-2419

-----Original Message-----

From: [REDACTED] NWO
Sent: Saturday, June 04, 2011 12:59 PM
To: Quinn, Kevin R NWO
Cc: Blechinger, Erik T NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: (UNCLASSIFIED)

Kevin - please go ahead and call Dayle Williamson. He is staffer handling the visit and he can articulate the media needs. His number is: Cell 4024506690. Work phone 4024413178.

Kayla

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 12:17 PM
To: [REDACTED], Kayla A NWO; [REDACTED] NWO
Subject: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] --I am handling PAO duties for Sen. Nelson visit. Please advise me as to whatever your PAO needs are. I may need to contact Nelson staffers-do you have a number of someone who is working it? Do you know if he is sending out a news release? I'd be interested in anything you can share about the visit.

Thanks kq
402-995-2419
402-779-1450

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Quinn, Kevin R NWO
Sent: Sunday, June 05, 2011 11:42 AM
To: Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO; O'Hara, Thomas A NWO
Subject: RE: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

THINGS HAVE CHANGED: [REDACTED] is traveling to the site of the levee breach. Will she return in time to do the briefing of Senator Nelson? If not, what is Plan B? Please apprise. kq

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Saturday, June 04, 2011 5:42 PM
To: [REDACTED] A NWO; [REDACTED] NWO; [REDACTED] NWO; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO; Oldham, Margaret NWO; Jordano, James J LTC NWO
Cc: [REDACTED] NWO; Farmer, Monique L NWO
Subject: Senator Nelson Visit Sunday at 3 p.m. (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Tomorrow at 3 pm, Senator Ben Nelson will visit the district. He will be greeted at the door by Erik Blechinger and [REDACTED]. They will accompany him to the EOC, where Kim Thomas will brief him. Erik, [REDACTED], John Bertino and Jody Farhat should attend the briefing. Those working in the room may stay and work, but be advised that media may attend and it could get crowded.
After the briefing the Senator will be taken to the JIC before he departs.
PAO will escort any media to the EOC.

Questions?

Kevin Quinn
PAO Specialist
995-2419

-----Original Message-----

From: [REDACTED] NWO
Sent: Saturday, June 04, 2011 12:59 PM
To: Quinn, Kevin R NWO
Cc: Blechinger, Erik T NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: (UNCLASSIFIED)

Kevin - please go ahead and call Dayle Williamson. He is staffer handling the visit and he can articulate the media needs. His number is: Cell 4024506690. Work phone 4024413178.

-----Original Message-----

From: Quinn, Kevin R NWO

Sent: Saturday, June 04, 2011 12:17 PM

To: [REDACTED] NWO; [REDACTED] NWO

Subject: (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] and [REDACTED] --I am handling PAO duties for Sen. Nelson visit. Please advise me as to whatever your PAO needs are. I may need to contact Nelson staffers-do you have a number of someone who is working it? Do you know if he is sending out a news release? I'd be interested in anything you can share about the visit.

Thanks kq
402-995-2419
402-779-1450

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: US Army Corps of Engineers Omaha District [eileen.l.williamson@usace.army.mil]
Sent: Sunday, June 05, 2011 11:23 AM
To: Farhat, Jody S NWD02
Subject: Riverwatch June 5, 2011 #2011MoRivFlood
Attachments: 605NR-RIVERWATCH6-11.pdf

Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT) Fort Peck(In operation since 1940) Midnight Elevation

- * 2250.3 ft msl
- * 24-hr Change (+0.1ft)

Daily Avg. Inflow

- * 46,000 cfs (4 Jun)
- * 56,000 cfs (3 Jun)

Daily Avg. Release

- * 27,500 cfs (4 Jun)
- * 19,000 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

- * 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

- * 1853.6 ft msl
- * 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 120,000 cfs (4 Jun)
- * 133,000 cfs (3 Jun)

Daily Avg. Release

- * 114,300 cfs (4 Jun)
- * 113,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.35 (0815 CDT 5 Jun)

* Flood stage - 16 ft

* 17.24 (0830 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.0 ft)

Daily Avg. Inflow

* 110,000 cfs (4 Jun)

* 104,000 cfs (3 Jun)

Daily Avg. Release

* 111,800 cfs (4 Jun)

* 94,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 17.88 (0845 CDT 5 Jun)

* Flood stage - 15 ft

* 16.38 (0815 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Flow (Year)
* 59,000 cfs (1997)

Projected Record Flow (Date)
* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)
Midnight Elevation
* 1419.4 ft msl
* 24-hr Change (-0.1 ft)

Daily Avg. Inflow
* 96,000 cfs (4 Jun)
* 83,000 cfs (3 Jun)

Daily Avg. Release
* 102,300 cfs (4 Jun)
* 89,100 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)
* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)
* 1422 ft msl - 1423 ft msl

Top of Spillway Gates
* 1423 ft msl

Planned Scheduled Releases (Subject to Change)
* Releases will be stepped up to 150,000 cfs by mid June.
* Reservoir will remain essentially level at 1420 feet.

Record Flow (Date)
* 74,000 cfs (1997)

Projected Record Flow (Date)
* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)
Midnight Elevation
* 1360.4 ft msl
* 24-hr Change (+0.3 ft)

Daily Avg. Inflow
* 108,000 cfs (4 Jun)
* 97,000 cfs (3 Jun)

Daily Avg. Release
* 100,500 cfs (4 Jun)
* 91,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)
* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)
* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.2 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 92,000 cfs (4 Jun)

* 83,000 cfs (3 Jun)

Daily Avg. Release

* 92,900 cfs (4 Jun)

* 84,900 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888713x-473617>>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

24-hr forecast (Glasgow, MT)

Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.

Tonight: Partly cloudy, with a low around 58. North northwest wind between 10 and 14 mph, with gusts as high as 18 mph.

Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind between 13 and 23 mph, with gusts as high as 31 mph.

24-hr forecast (Riverdale, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.

Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.

24-hr forecast (Washburn, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.

24-hr forecast (Bismarck/Mandan, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.

24-hr forecast (Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Ft. Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Lower Brule, SD)

Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.

Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.

24-hr forecast (Chamberlain, SD)

Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.

Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.

24-hr forecast (Yankton, SD)

Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.

24-hr forecast (Sioux City, IA)

Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.

24-hr forecast (Omaha, NE)

Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.

Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.

Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.

Source of information: <http://www.weather.gov/> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888712x-994852>>

Internet: <http://www.nwo.usace.army.mil> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888711x-107348>>
Facebook: <http://www.facebook.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888710x-628584>>
Twitter: <http://www.twitter.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888709x-1149820>>
YouTube: <http://www.youtube.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888708x-262320>>
Flickr: <http://www.flickr.com/photos/omahausace> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x888707x-783557>>

<<http://us.vocuspr.com/Url.aspx?520028x888714x-1361124>>

If you would rather not receive future communications from U.S. Army Corps of Engineers Omaha District, let us know by clicking here. <<http://USACEARMY.pr-optout.com/OptOut.aspx?520028x24691x317130x3x1875268x24000x6&Email=Jody.S.Farhat%40usace.army.mil>>

U.S. Army Corps of Engineers Omaha District, 1616 Capitol Ave, Omaha, NE 68102 United States



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
<p>Midnight Elevation</p> <ul style="list-style-type: none"> 2250.3 ft msl 24-hr Change (+0.1ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 46,000 cfs (4 Jun) 56,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 27,500 cfs (4 Jun) 19,000 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 2234 ft msl – 2246 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 2246 ft msl – 2250 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 2250 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Peak release will be 50,000 cfs by no later than mid June. Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 35,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 50,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1853.6 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 120,000 cfs (4 Jun) 133,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 114,300 cfs (4 Jun) 113,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1837.5 ft msl – 1850 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1850 ft msl – 1854 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1854 ft msl <p>River Stage (Bismarck)</p> <ul style="list-style-type: none"> 17.35 (0815 CDT 5 Jun) Flood stage – 16 ft 17.24 (0830 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised. First time in history, spillway gates will be used to pass floodwaters. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 65,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1619.2 ft msl 24-hr Change (+0.0 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 110,000 cfs (4 Jun) 104,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 111,800 cfs (4 Jun) 94,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1607.5 ft msl – 1620 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1617 ft msl – 1620 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1620 ft msl <p>River Stage (Pierre)</p> <ul style="list-style-type: none"> 17.88 (0845 CDT 5 Jun) Flood stage – 15 ft 16.38 (0815 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 59,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1419.4 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 96,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 102,300 cfs (4 Jun) 89,100 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1420 ft msl – 1423 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1422 ft msl – 1423 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1423 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will remain essentially level at 1420 feet. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 74,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1360.4 ft msl 24-hr Change (+0.3 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 108,000 cfs (4 Jun) 97,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 100,500 cfs (4 Jun) 91,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1350 ft msl – 1375 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1365 ft msl – 1375 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1375 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 67,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1206.2 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 92,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 92,900 cfs (4 Jun) 84,900 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1204.5 ft msl – 1210 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1208 ft msl – 1210 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1210 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 70,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June)

Source of information: <http://www.nwrd-mr.usace.army.mil/rcc>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.</p> <p>Tonight: Partly cloudy, with a low around 58. North northwest wind gusts as high as 18 mph.</p> <p>Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind gusts as high as 31 mph.</p>	<p>24-hr forecast (Riverdale, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.</p> <p>Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.</p> <p>24-hr forecast (Washburn, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.</p>	<p>24-hr forecast (Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.</p> <p>Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.</p> <p>Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.</p> <p>Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo-usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>



US Army Corps
of Engineers
Omaha District

Missouri River Flooding (Logistics) (Updated 5 Jun; 0935 CDT)

Personnel Deployed

5 (Glasgow, MT)
8 (Lander, WY)
16 (Bismarck, ND)
6 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)

5 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)

2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
1 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed 4 June 0930 hrs

HESCO

Issued: 30,360 LF
On Hand: 10,570 LF (9715 LF-4' and 855 LF of 3')
Projected Outstanding Requirements: 41,430 LF
Currently working on: 20,000 LF due in from Louisiana 4 Jun

Poly Rolls

Issued: 1500 rolls
On Hand: 666 rolls.
Projected Outstanding Requirements: 2500 rolls
District Contracting obtained 1200 rolls, will be here by 7 Jun
Contract awarded for 1500 rolls 400 rolls
700 rolls coming in from MN

Pumps

Issued: 16 pumps
On Hand: ZERO
Projected Outstanding Requirements: 12 pumps
7 pumps returning from LA by 6 Jun

Additional Supplies due in:

1280 LF of RDFW from LA
1K ea 2K sandbags from LA

Source of information: CMT Brief (4 Jun 11)

Sandbags

Issued: 13.2 M
On Hand: 1,144,500
Projected Outstanding Requirements: 7,885,000 M
1.5 M due in tomorrow
District Contracting has 2.5 M due in from vendor 8 Jun
650K due in from CENWS

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 11:10 AM
To: [REDACTED] NWD; [REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: WM Update - 6-5-11 (UNCLASSIFIED)
Attachments: NWD Missouri Basin Update - 060511.pptx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Today's Update is attached.

[REDACTED]
Missouri River Basin Water Management Division Northwestern Division Corps of Engineers
[REDACTED]
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Basin Stages

5 June 2011



US Army Corps of Engineers
BUILDING STRONG®

	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages	Projected Date **	Record Stage (Year)
A	Bismarck	16	17.4	150 kcfs 20.6	June 19	
B	Pierre	15	17.6	150 kcfs 18.7	June 7	
C	Yankton	20	21.3	150 kcfs n/a	June 14	
D	Sioux City	30	29.1	170 kcfs 35	June 15	44.28 (1952)
E	Decatur	35	34.3	175 kcfs 40	June 15	43.5 (1943)
F	Blair	26.5	28.4	175 kcfs 30	June 15	33.5 (1952)
G	Omaha	29	29.8	175 kcfs 34	June 16	40.2 (1952)
H	Nebraska City	18	23.1	200 kcfs 27	June 16	27.19 (1993)
I	Brownville	33	39.3	205 kcfs 43	June 16	44.3 (1993)
J	Rulo	17	23.1	210 kcfs 25.5	June 17	26.63 (2010)
K	St. Joseph	17	21.8	215 kcfs 27	June 17	32.07 (1993)
L	Atchison	22	n/a	215 kcfs 30	June 17	31.63 (1993)
M	Leavenworth	20	20.6	215 kcfs 27	June 17	35.34 (1993)

Missouri River Basin Stages

5 June 2011



US Army Corps of Engineers
BUILDING STRONG®

	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages		Projected Date **	Record Stage (Year)
N	Kansas City	32	26.7	220 kcfs 30	350 kcfs 39	June 18	48.87 (1993)
O	Sibley	22	26.1	220 kcfs 28	350 kcfs 33	June 18	40.6 (1952)
P	Napoleon	17	22.9	220 kcfs 25	350 kcfs 29	June 18	28.86 (2007)
Q	Waverly	20	25.8	230 kcfs 27	370 kcfs 31	June 18	31.15 (1993)
R	Miami	18	24.6	235 kcfs 26	370 kcfs 30	June 19	32.6 (1993)
S	Glasgow	25	27.6	250 kcfs 32	410 kcfs 37	June 19	39.5 (1993)
T	Boonville	21	24.0	260 kcfs 27	420 kcfs 33	June 19	37.1 (1993)
U	Jefferson City	23	23.0	260 kcfs 27	430 kcfs 35	June 19	38.3 (1993)
V	Chamois	17	19.2	290 kcfs 24	450 kcfs 29	June 19	33.3 (1993)
W	Gasconade	22	n/a	300 kcfs 30	470 kcfs 35	June 19	39.6 (1993)
X	Hermann	21	23.2	300 kcfs 27	470 kcfs 33	June 20	36.97 (1993)
Y	Washington	20	19.4	300 kcfs 23	470 kcfs 32	June 20	35.4 (1993)
Z	St. Charles	25	25.4	300 kcfs 28	470 kcfs 37	June 20	40.04 (1993)

[REDACTED] NWO

From: Williamson, Eileen L NWO on behalf of CENWO-EOC NWO
Sent: Sunday, June 05, 2011 10:50 AM
To: Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] A NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO
Subject: Riverwatch Daily Update - June 5, 2011 (UNCLASSIFIED)
Attachments: Flood_Fight_Storyboard_5JUN.docx

Classification: UNCLASSIFIED

Caveats: NONE

Attached is today's Riverwatch - Flood Fight Storyboard June 5, 2011

Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.3 ft msl

* 24-hr Change (+0.1ft)

Daily Avg. Inflow

* 46,000 cfs (4 Jun)

* 56,000 cfs (3 Jun)

Daily Avg. Release

* 27,500 cfs (4 Jun)

* 19,000 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.6 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 120,000 cfs (4 Jun)

* 133,000 cfs (3 Jun)

Daily Avg. Release

* 114,300 cfs (4 Jun)

* 113,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.35 (0815 CDT 5 Jun)

* Flood stage - 16 ft

* 17.24 (0830 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.0 ft)

Daily Avg. Inflow

* 110,000 cfs (4 Jun)

* 104,000 cfs (3 Jun)

Daily Avg. Release

* 111,800 cfs (4 Jun)

* 94,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 17.88 (0845 CDT 5 Jun)

* Flood stage - 15 ft

* 16.38 (0815 CDT 4 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 96,000 cfs (4 Jun)

* 83,000 cfs (3 Jun)

Daily Avg. Release

* 102,300 cfs (4 Jun)

* 89,100 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.4 ft msl

* 24-hr Change (+0.3 ft)

Daily Avg. Inflow

* 108,000 cfs (4 Jun)

* 97,000 cfs (3 Jun)

Daily Avg. Release

* 100,500 cfs (4 Jun)

* 91,200 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.2 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 92,000 cfs (4 Jun)

* 83,000 cfs (3 Jun)

Daily Avg. Release

* 92,900 cfs (4 Jun)

* 84,900 cfs (3 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

24-hr forecast (Glasgow, MT)

Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.

Tonight: Partly cloudy, with a low around 58. North northwest wind between 10 and 14 mph, with gusts as high as 18 mph.

Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind between 13 and 23 mph, with gusts as high as 31 mph.

24-hr forecast (Riverdale, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.

Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.

24-hr forecast (Washburn, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.

24-hr forecast (Bismarck/Mandan, ND)

Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.

Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.

24-hr forecast (Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Ft. Pierre, SD)

Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.

Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.

24-hr forecast (Lower Brule, SD)

Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.

Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.

Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.

24-hr forecast (Chamberlain, SD)

Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.

Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.

24-hr forecast (Yankton, SD)

Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.

24-hr forecast (Sioux City, IA)

Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.

Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.

Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.

24-hr forecast (Omaha, NE)

Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.

Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.

Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

ALL INFORMATION BELOW IS FOUO

Missouri River Flooding (Logistics) (Updated 5 Jun; 0935 CDT)

Personnel Deployed

5 (Glasgow, MT)
8 (Lander, WY)
16 (Bismarck, ND)
6 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
5 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
1 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed 4 June 0930 hrs

HESCO

Issued: 30,360 LF

On Hand: 10,570 LF (9715 LF-4' and 855 LF of 3')

Projected Outstanding Requirements: 41,430 LF

Currently working on: 20,000 LF due in from Louisiana 4 Jun

Poly Rolls

Issued: 1500 rolls

On Hand: 666 rolls.

Projected Outstanding Requirements: 2500 rolls

District Contracting obtained 1200 rolls, will be here by 7 Jun

Contract awarded for 1500 rolls 400 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: ZERO

Projected Outstanding Requirements: 12 pumps

7 pumps returning from LA by 6 Jun

Additional Supplies due in:

1280 LF of RDFW from LA

1K ea 2K sandbags from LA

Sandbags

Issued: 13.2 M

On Hand: 1,144,500

Projected Outstanding Requirements: 7,885,000 M

1.5 M due in tomorrow

District Contracting has 2.5 M due in from vendor 8 Jun

650K due in from CENWS

Source of information: CMT Brief (4 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE



Missouri River Mainstem Reservoir Bulletin (Updated 5 Jun; 0935 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
<p>Midnight Elevation</p> <ul style="list-style-type: none"> 250.3 ft msl 24-hr Change (+0.1ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 46,000 cfs (4 Jun) 56,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 27,500 cfs (4 Jun) 19,000 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 2234 ft msl – 2246 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 2246 ft msl – 2250 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 2250 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Peak release will be 50,000 cfs by no later than mid June. Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 35,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 50,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1853.6 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 120,000 cfs (4 Jun) 133,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 114,300 cfs (4 Jun) 113,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1837.5 ft msl – 1850 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1850 ft msl – 1854 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1854 ft msl <p>River Stage (Bismarck)</p> <ul style="list-style-type: none"> 17.35 (0815 CDT 5 Jun) Flood stage – 16 ft 17.24 (0830 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 65,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1619.2 ft msl 24-hr Change (+0.0 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 110,000 cfs (4 Jun) 104,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 111,800 cfs (4 Jun) 94,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1607.5 ft msl – 1620 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1617 ft msl – 1620 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1620 ft msl <p>River Stage (Pierre)</p> <ul style="list-style-type: none"> 17.88 (0845 CDT 5 Jun) Flood stage – 15 ft 16.38 (0815 CDT 4 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. <p>Record Flow (Year)</p> <ul style="list-style-type: none"> 59,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1419.4 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 96,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 102,300 cfs (4 Jun) 89,100 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1420 ft msl – 1423 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1422 ft msl – 1423 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1423 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will remain essentially level at 1420 feet. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 74,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1360.4 ft msl 24-hr Change (+0.3 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 108,000 cfs (4 Jun) 97,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 100,500 cfs (4 Jun) 91,200 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1350 ft msl – 1375 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1365 ft msl – 1375 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1375 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 67,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	<p>Midnight Elevation</p> <ul style="list-style-type: none"> 1206.2 ft msl 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none"> 92,000 cfs (4 Jun) 83,000 cfs (3 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none"> 92,900 cfs (4 Jun) 84,900 cfs (3 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none"> 1204.5 ft msl – 1210 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none"> 1208 ft msl – 1210 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none"> 1210 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. <p>Record Flow (Date)</p> <ul style="list-style-type: none"> 70,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none"> 150,000 cfs (Mid June)



Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Mostly sunny, with a high near 82. Southeast wind around 11 mph becoming west southwest.</p> <p>Tonight: Partly cloudy, with a low around 58. North northwest wind gusts as high as 18 mph.</p> <p>Monday: A 20 percent chance of showers and thunderstorms after noon. Mostly sunny, with a high near 78. Breezy, with a east wind between 13 and 23 mph, with gusts as high as 31 mph.</p>	<p>24-hr forecast (Riverdale, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind between 11 and 14 mph, with gusts as high as 18 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. West wind between 5 and 8 mph becoming calm.</p> <p>Monday: Partly sunny, with a high near 78. Northeast wind between 8 and 14 mph, with gusts as high as 18 mph.</p> <p>24-hr forecast (Washburn, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 81. South wind around 15 mph, with gusts as high as 22 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Mostly cloudy, with a low around 57. Southwest wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 79. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.</p>	<p>24-hr forecast (Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: A 20 percent chance of showers and thunderstorms after 4pm. Mostly sunny, with a high near 88. South southeast wind between 9 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 63. Southeast wind between 6 and 11 mph.</p> <p>Monday: Sunny and hot, with a high near 93. East southeast wind between 6 and 10 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Mostly sunny, with a high near 87. South southeast wind between 10 and 16 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms before 1am. Partly cloudy, with a low around 64. South southeast wind between 7 and 16 mph.</p> <p>Monday: Sunny and hot, with a high near 95. Southeast wind between 7 and 10 mph.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Mostly sunny, with a high near 88. South southeast wind between 15 and 17 mph, with gusts as high as 25 mph.</p> <p>Tonight: Partly cloudy, with a low around 64. South southeast wind between 7 and 13 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. Southeast wind between 3 and 9 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Mostly sunny, with a high near 89. Southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 66. South southeast wind between 6 and 10 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 101. South wind between 5 and 13 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Mostly sunny, with a high near 91. East southeast wind between 11 and 13 mph.</p> <p>Tonight: Partly cloudy, with a low around 68. South southeast wind between 6 and 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. Heat index values as high as 103. South wind between 6 and 15 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 5 Jun; 0935 CDT)

Fort Peck	Garrison	Osage	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 83. South wind between 14 and 16 mph, with gusts as high as 23 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Mostly cloudy, with a low around 57. South wind between 6 and 9 mph becoming calm.</p> <p>Monday: Mostly sunny, with a high near 83. Light wind becoming east between 11 and 14 mph. Winds could gust as high as 20 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Mostly sunny, with a high near 92. South southeast wind around 8 mph.</p> <p>Tonight: Partly cloudy, with a low around 69. South wind around 9 mph.</p> <p>Monday: Sunny and hot, with a high near 97. South southwest wind between 9 and 13 mph.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>



Missouri River Flooding (Logistics) (Updated 5 Jun; 0935 CDT)

Personnel Deployed

5 (Glasgow, MT)
8 (Lander, WY)
16 (Bismarck, ND)
6 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)

5 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)

2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
1 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed 4 June 0930 hrs

HESCO

Issued: 30,360 LF
On Hand: 10,570 LF (9715 LF-4' and 855 LF of 3')
Projected Outstanding Requirements: 41,430 LF
Currently working on: 20,000 LF due in from Louisiana 4 Jun

Poly Rolls

Issued: 1500 rolls
On Hand: 666 rolls.
Projected Outstanding Requirements: 2500 rolls
District Contracting obtained 1200 rolls, will be here by 7 Jun
Contract awarded for 1500 rolls 400 rolls
700 rolls coming in from MN

Pumps

Issued: 16 pumps
On Hand: ZERO
Projected Outstanding Requirements: 12 pumps
7 pumps returning from LA by 6 Jun

Additional Supplies due in:

1280 LF of RDFW from LA
1K ea 2K sandbags from LA

Sandbags

Issued: 13.2 M
On Hand: 1,144,500
Projected Outstanding Requirements: 7,885,000 M
1.5 M due in tomorrow
District Contracting has 2.5 M due in from vendor 8 Jun
650K due in from CENWS

NWO

From: Williamson, Eileen L NWO
Sent: Sunday, June 05, 2011 10:15 AM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Subject: Accuracy Check (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Is this an accurate statement? Just working a talking point to summarize questions and commentary from the Facebook site.

If it is accurate, I'd like to post as a quote from Jody with your official job title.

If we can make it shorter instead of longer that would be great. "Soundbytes" must be less than 420 characters including all words, spaces and punctuation.

Releases from the main stem system are scheduled to manage efficient flow through the Missouri River system while safely evacuating floodwaters from the reservoirs and maintaining the safety of the main stem dams. The inundation maps show areas of potential inundation during the period releases are at the projected level of 150,000 cfs. The current release schedule does not project releases higher than 150,000 cfs from the mainstem dams. Changing weather can affect the release forecast but, at this time, the projected releases are for up to 150,000 cfs.

Eileen L. Williamson

Public Affairs Specialist

U.S. Army Corps of Engineers

Office: 402-995-2417

Mobile: 402-779-1448

eileen.l.williamson@usace.army.mil

Internet: [nwo.usace.army.mil](http://www.nwo.usace.army.mil/) <<https://www.nwo.usace.army.mil/>>

Facebook: [facebook.com/OmahaUSACE](https://www.facebook.com/OmahaUSACE) <<http://www.facebook.com/OmahaUSACE>>

Twitter: [twitter.com/OmahaUSACE](https://www.twitter.com/OmahaUSACE) <<http://www.twitter.com/OmahaUSACE>>

[REDACTED] NWO

From: [REDACTED] HQ02
Sent: Sunday, June 05, 2011 9:44 AM
To: [REDACTED] NWO; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02;
[REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Thanks [REDACTED]

All, one thing to keep in mind, we cannot and should not ever expect that levees will never be overtopped. That means that evacuation need be part of the risk mitigation amongst other techniques. As we can, we do our best for the systems resiliency.

Be safe! Best, kd-a

BUILDING STRONG!

[REDACTED]
Director, Contingency Operations and Homeland Security HQ USACE
([REDACTED] BB cell ([REDACTED])
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 10:37 AM
To: [REDACTED] HQ02; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Maam,

Yes, levee MR L-575 is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor. It was constructed by USACE.

More information will be issued as it becomes available.

The States of Iowa and Missouri Emergency Management Agencies as well as the County EM's, NWS, FEMA Region VII have been notified as well. DOT's are working on closing down I-29 as we continue to evaluate the inundation areas. USACE and Contractor personnel are evacuating and as soon as we have full accountability on high ground, we will send out another message.

Thanks,

Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: [REDACTED] HQ02
Sent: Sunday, June 05, 2011 9:31 AM
To: [REDACTED] NWO; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD;
Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED]
HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575
(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] pls clarify. Is this levee is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor? Did we construct or was it constructed by others and incorporated into the Federal program later. Thanks and for this and future items, pls be clear. I continue to see the term "federal levee" used, when I think it usually refers to a levee in the federal program. We do have true "federal levees", meaning levees owned and operated by the Corps, especially the MR&T. Using the same label for both situation is confusing. Thx, kd-a

BUILDING STRONG!

[REDACTED]
Director, Contingency Operations and Homeland Security HQ USACE
([REDACTED]), BB cell ([REDACTED])
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 10:14 AM
To: DLL-HQ-UOCInternal; [REDACTED] HQ02; CENWD-EOC NWD; McMahon, John R BG NWD;
Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED]
HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575
(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,

Who: US Army Corps of Engineers, Omaha District

What: Levee Breach - Missouri River Levee - L-575

When: 05 June 2011 at 0900

Where: Near Hamburg, IA, River Mile 552.5, Atchison County, MO

Why: A full levee breach has occurred on Missouri River Federal Levee L-575. USACE contractors and personnel were onsite 100' South of the breach working the issue from yesterday. This is a new area, not the one that was noticed yesterday. All personnel are evacuating. The States of Missouri and Iowa Emergency Management Agencies have been identified as well as the local emergency managers. More to follow as it becomes available.

Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102

[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 9:37 AM
To: [REDACTED] HQ02; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Maam,

Yes, levee MR L-575 is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor. It was constructed by USACE.

More information will be issued as it becomes available.

The States of Iowa and Missouri Emergency Management Agencies as well as the County EM's, NWS, FEMA Region VII have been notified as well. DOT's are working on closing down I-29 as we continue to evaluate the inundation areas. USACE and Contractor personnel are evacuating and as soon as we have full accountability on high ground, we will send out another message.

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] HQ02
Sent: Sunday, June 05, 2011 9:31 AM
To: [REDACTED] NWO; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] pls clarify. Is this levee is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor? Did we construct or was it constructed by others and incorporated into the Federal program later. Thanks and for this and future items, pls be

clear. I continue to see the term "federal levee" used, when I think it usually refers to a levee in the federal program. We do have true "federal levees", meaning levees owned and operated by the Corps, especially the MR&T. Using the same label for both situation is confusing. Thx, kd-a

BUILDING STRONG!

[REDACTED]
Director, Contingency Operations and Homeland Security HQ USACE

[REDACTED], BB cell [REDACTED]
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO

Sent: Sunday, June 05, 2011 10:14 AM

To: DLL-HQ-UOCInternal; [REDACTED] HQ02; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02

Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD

Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575
(UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

All,

Who: US Army Corps of Engineers, Omaha District

What: Levee Breach - Missouri River Levee - L-575

When: 05 June 2011 at 0900

Where: Near Hamburg, IA, River Mile 552.5, Atchison County, MO

Why: A full levee breach has occurred on Missouri River Federal Levee L-575. USACE contractors and personnel were onsite 100' South of the breach working the issue from yesterday. This is a new area, not the one that was noticed yesterday. All personnel are evacuating. The States of Missouri and Iowa Emergency Management Agencies have been identified as well as the local emergency managers. More to follow as it becomes available.

Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

Thanks,

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED

Caveats: FOUO

NWO

From: [REDACTED] HQ02
Sent: Sunday, June 05, 2011 9:31 AM
To: [REDACTED] NWO; DLL-HQ-UOCInternal; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: RE: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] pls clarify. Is this levee is in the Federal Program (PL 84-99) and is operated and maintained by the non-federal sponsor? Did we construct or was it constructed by others and incorporated into the Federal program later. Thanks and for this and future items, pls be clear. I continue to see the term "federal levee" used, when I think it usually refers to a levee in the federal program. We do have true "federal levees", meaning levees owned and operated by the Corps, especially the MR&T. Using the same label for both situation is confusing. Thx, kd-a

BUILDING STRONG!

[REDACTED]
Director, Contingency Operations and Homeland Security HQ USACE
[REDACTED], BB cell [REDACTED]
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 10:14 AM
To: DLL-HQ-UOCInternal; [REDACTED] HQ02; CENWD-EOC NWD; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

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Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED] [\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Sunday, June 05, 2011 9:14 AM
To: DLL-HQ-UOCInternal; [REDACTED] HQ02; CENWD-EOC NWD; McMahon, [REDACTED] R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO; [REDACTED] C HQ02; [REDACTED] HQ02
Cc: CENWO-EOC NWO; DLL-CENWO-EOC CMT-ALL; CENWD-EOC NWD
Subject: ****URGENT*****CCIR - Levee Breach - Federal Missouri River Levee - L-575 (UNCLASSIFIED)
Attachments: Hamburg_Levee_Erosion_20110604_Op.pdf

Classification: UNCLASSIFIED
Caveats: FOUO

All,

Who: US Army Corps of Engineers, Omaha District
What: Levee Breach - Missouri River Levee - L-575
When: 05 June 2011 at 0900
Where: Near Hamburg, IA, River Mile 552.5, Atchison County, MO
Why: A full levee breach has occurred on Missouri River Federal Levee L-575. USACE contractors and personnel were onsite 100' South of the breach working the issue from yesterday. This is a new area, not the one that was noticed yesterday. All personnel are evacuating. The States of Missouri and Iowa Emergency Management Agencies have been identified as well as the local emergency managers. More to follow as it becomes available.

Attached is photo from yesterday's issue but it shows a good map of where the issue is at.

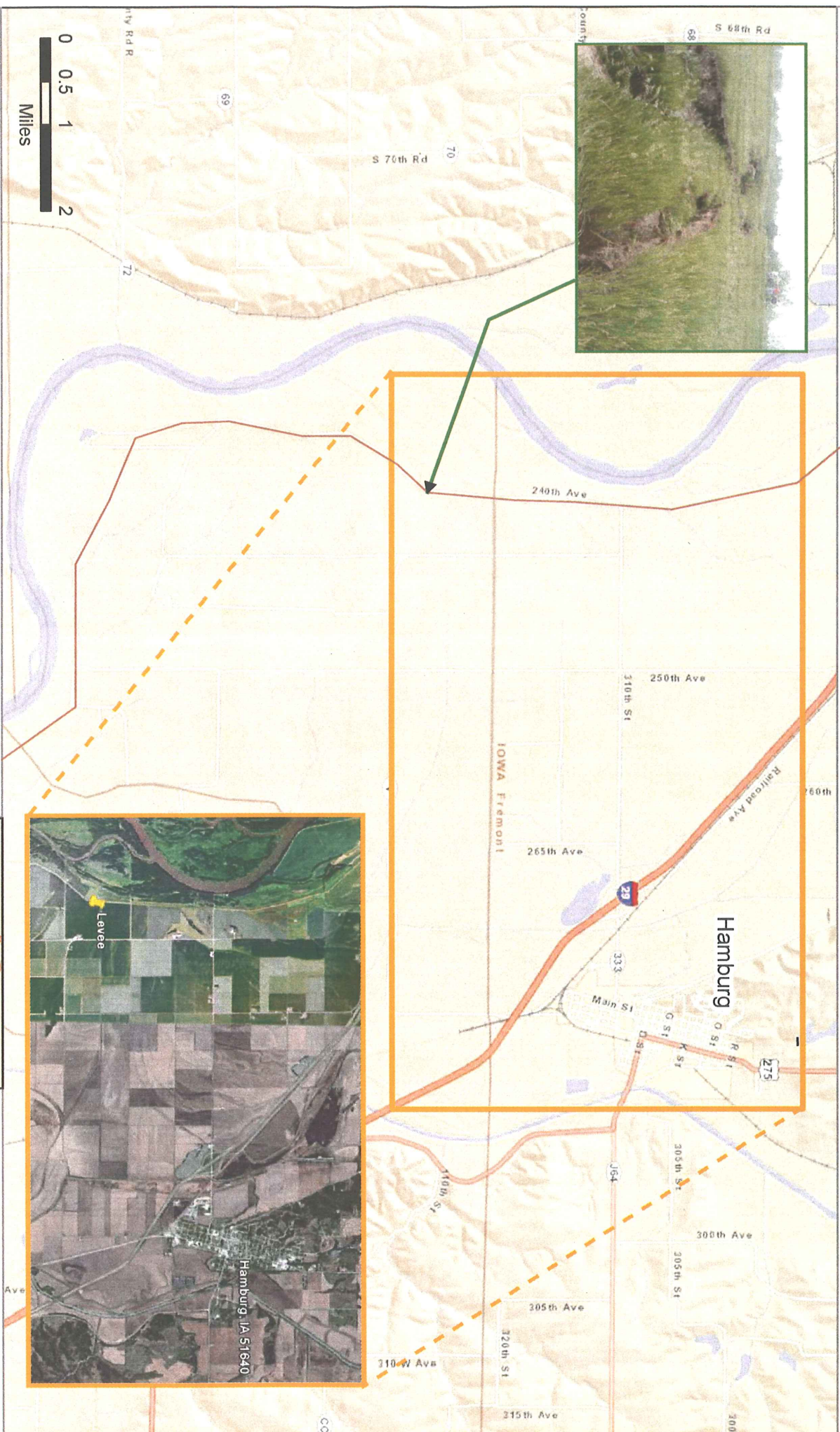
Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED
Caveats: FOUO



Missouri River Levee Erosion - Hamburg, IA (06-04-11)



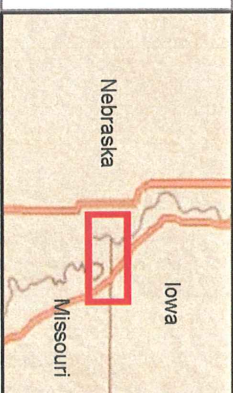
Legend

Levee Erosion (06-04-11 1530)

— Levee Path



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Department of Homeland Security
Federal Emergency Management Agency
Geospatial Intelligence Unit
Kansas City, MO (Region 7)
Date Created: 06/04/2011
Author: cory.macie@dhs.gov
File: Hamburg_Levee_Erosion_20110604

Author: cory.macie@dhs.gov
 burg_Levee_Erosion_20110604

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Monday, June 06, 2011 5:51 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] John K NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] Jr NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] D02; [REDACTED] NWD02; Beyer, [REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 10:37 AM
To: [REDACTED]
Subject: RE: Questions about flows etc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

The design storm for sizing the flood control storage of the mainstem system was the 1881 flood which included 40 MAF of runoff over a 5 month period March through July. There isn't a specific return interval associated with it to my knowledge. Our Jun 1 runoff forecast for 2011 is for 44 MAF of runoff from March through July, 4 MAF more than the design storm.

As for the stage increases for 10 kcfs of additional flow, I've included the link to our website for our best estimates of potential stages when the full 150 kcfs release reaches various locations. We provide a range of stages with associated flows, so I think that should help answer your question.

The link is:

<http://www.nwo.usace.army.mil/html/op-e/flood2011/citizenresources.html>

Then select "Below Gavins Point - Range of Flows and Stages"

Regards,
Jody

-----Original Message-----

From: [REDACTED] [mailto:[REDACTED]]
Sent: Monday, June 06, 2011 9:04 AM
To: Farhat, Jody S NWD02
Cc: bill@agriservices.com; wlay@socket.net; tkuenzel@yhti.net
Subject: Questions about flows etc

Jody, On several occasions, questions from flood plain interests are: ---1--- What is the combined design storm water runoff storage recurrence interval for the annual flood control and exclusive pools in the main stem reservoir system as a whole; and, for each individual dam reservoir system designed for storage of flood control waters? ---2--- For flood flows still within the river banks and the levees, what is the approximate depth of water for each 10,000 cfs of discharge at Sioux City, Omaha, St. Joseph, Kansas City and Hermann?
Thank you. JBG, PE

Joseph B. Gibbs, PE, [REDACTED], Columbia, Missouri 65203 Ph [REDACTED]-----
FAX [REDACTED]-----E-Mail: [REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 10:53 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: FW: Interview Request (UNCLASSIFIED)
Attachments: Corps Questions.indd; ATT451027.htm

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

FYI, Bill Mitzel, editor/publisher of Dakota Country magazine out of Bismarck, ND, has requested an interview with me. He offered to send the questions in advance, see below. No show stoppers. Tomorrow morning looks good on my calendar, would you be available?

Jody

-----Original Message-----

From: bill mitzel [<mailto:dcmag@orbitcom.biz>]
Sent: Monday, June 06, 2011 10:41 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... here's a list of 20 questions for your advance review. I might have a few more in-between, as we visit on the phone. Please review these and let me know what time we can do this during the coming week here. I anticipate about an hour, give or take. Thanks very much for your time.

Bill Mitzel
Dakota County Magazine

Questions for interview with Corps of Engineers...

1. How did this all happen so quickly?
2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?
3. Snowpack wasn't a problem until early June and by then releases were over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?
4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?
5. Weren't these dams built to prevent this type of flooding?
6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year. The 2010 runoff forecast then was at 115%. The ground was saturated with water. Did you sense a return of a wet cycle then? Was there a red flag at that time?
7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)
8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?
9. There are three factors that people seem to be upset with: 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff? 2) Did the Corps misjudge the amount on snowpack in the mountains last winter? 3) Management of the system in conjunction with the piping plover and least tern?

10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?
11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?
12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?
13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?
14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?
15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?
16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?
17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?
18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?
19. What's the Corps' overall reaction to all of this? Would you have done anything differently knowing what you know now?
20. Will the Corps do anything differently when this is over as far as management operations?

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] Linda F NWO

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 4:05 PM
To: [REDACTED]
Subject: RE: #s COL Ruch was quoting (UNCLASSIFIED)
Attachments: May 2011 Inflow - Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] see attached email from [REDACTED] I think those are the numbers you were referring to, correct?

Jody

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 1:53 PM
To: Farhat, Jody S NWD02
Subject: #s COL Ruch was quoting (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Do you have those numbers COL Ruch was quoting/reading from during today's radio interview? (He had a sheet in front of him ... might have been from one of his previous Stakeholder's calls?)

Want to send to Jim to get him to help me convert to something people might get their head around.

Thanks! [REDACTED]

[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

From: [REDACTED]
Sent: Wednesday, June 01, 2011 10:22 AM
To: Farbat, Jody S NWD02; [REDACTED]
Cc: [REDACTED]
Subject: May 2011 Inflow - Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

May 2011 inflow above Sioux City was 10.5 MAF

Previous record May inflow was 7.2 MAF (1995)

May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)

May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)

The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Comparing FTPK+GARR May inflows:

1952* = 1.8 + 4.9 = 6.7

1975 = 2.7 + 2.7 = 5.4

1978 = 1.8 + 2.8 = 4.6

1997 = 1.5 + 1.6 = 3.1

2011 = 2.9 + 4.4 = 7.3

1952 record monthly flows occurred in (April) = 1.8 + 4.9 = 6.7

[REDACTED]
[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:19 PM
To: [REDACTED], Ruch, Robert J COL NWO
Cc: [REDACTED]
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The answer should be "these peak releases will likely extend well into August". Our 3 week forecast shows Fort Peck still in surcharge, and Garrison and Oahe still in exclusive on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies both to our mainstem dams and all the levees etc downstream. We're going to meet with Hydrologic Engineering tomorrow morning to look at several scenarios; we'll have more info in a day or two.

Jody

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED]
Cc: [REDACTED], Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 4:57 PM
To: [REDACTED]
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

[REDACTED]

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 4:52 PM
To: [REDACTED]
Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you have Jody check this and add info.

The length of time for the water to recede will depend upon several conditions, including (???)

Also, how long do we expect to maintain releases at 150,000 cfs. Some of us are saying through the end of July. Others are saying into August. What is the estimate we want to provide and stay with?

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:51 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
[REDACTED] Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; [REDACTED]
[REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
Cc: [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 6 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
6 June 2011

We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

We are also getting many questions regarding the duration of the high flows. These peak releases will likely extend well into August. Our reservoir forecast posted on the web shows Fort Peck still in the surcharge pool, and Garrison and Oahe still in their exclusive flood control pools on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies to our mainstem dams as well as impacted communities, infrastructure and flood risk mitigation projects downstream of the dams. Over the next several days we will be looking at several scenarios for evacuating the flood water stored in the mainstem reservoir system and will provide better estimates when they become available.

Releases

- Each day we will be updating our reservoir forecast daily and will be posting it on the web when it is complete, generally in the late afternoon. We encourage you to monitor the web site and participate in these daily calls to ensure you have the latest and best information available
- Important to note that any time a release change of 10,000 cfs or more is planned at one of the reservoirs, the releases may be stepped up incrementally throughout the day to avoid rapid changes in downstream river levels. If you have specific concerns or questions with the come-up schedule, please call our office.
- Planned releases at the 6 dams based on the forecast we posted on the web this afternoon did not change from yesterday's forecast. The releases are as follows:
 - Fort Peck –Releases today 45,000 cfs, increasing to 50,000 cfs tomorrow.
 - Garrison –120,000 cfs today, increasing to 130,000 cfs on Tuesday, then gradually stepping up to 150,000 cfs no later than mid-June.
 - Oahe and Big Bend –Releases today 140,000, and increasing to the peak release rate of 150,000 cfs tomorrow.
 - Fort Randall – 127,000 cfs today, going to 137,000 cfs on Tuesday. Releases will eventually reach 150,000 cfs no later than mid June.

- Gavins Point – 120,000 cfs today, going to 130,000 cfs tomorrow and then 140,000 cfs on Wednesday. Releases will eventually reach 150,000 cfs no later than mid June.
- The forecast is based on best available information at this time; actual releases are based on conditions on the ground and are subject to change.

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between

1989 and 2004, analyzed the potential to provide additional flood control storage by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.

- Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.
- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:10 PM
To: [REDACTED]
Cc: [REDACTED] James NWK, Bhattacharya, [REDACTED]
Subject: RE: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Matt,
The deviation request to release 1,500 cfs through Glen Elder Dam to minimize the chance of spillway releases is approved. This deviation will remain in effect until the repair of the structure is complete.

The additional release from Glen Elder Dam will add to the already high flows in the Missouri River, but will not have a measurable impact on stages on the lower Missouri River.

Please contact me if you have any questions regarding the approval of this deviation request.

Sincerely,

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

[REDACTED]

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 12:41 PM
To: Farhat, Jody S NWD02; [REDACTED]
Cc: [REDACTED]
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

We have received the following information and attached photographs from the Bureau of Reclamation. There are significant safety concerns at Glen Elder Dam (Waconda Lake). We request a deviation to release 1,500 cfs through Glen Elder dam to minimize the chance of spillway release and help provide suitable conditions for repair of the structure. The deviation is requested until the construction is completed.

We understand that there are concerns with the Missouri River flow. However, the 1,500 cfs is one percent of the expected mainstem project release and would reduce the chance of a catastrophic situation in the Solomon basin.

Thank you for your consideration of this Glen Elder Dam (Waconda Lake) operation deviation.

[REDACTED]
[REDACTED]
(Acting) Chief, Hydrologic Engineering Branch
[REDACTED]

-----Original Message-----

From: Peck, William E [mailto:WPeck@usbr.gov]

Sent: Friday, June 03, 2011 4:09 PM

To: [REDACTED]

Cc: [REDACTED]

Subject: Ongoing Construction Projects at Glen Elder Dam

Hello [REDACTED]

Have attached a couple of photos for each of the two construction projects taking place at Glen Elder Dam (Waconda Lake). The first photo of the spillway approach apron (immediately upstream of the spillway gates) gives you an idea of the scope of the repairs that were taking place. This photo was taken early last November. The second photo of the spillway construction project was taken when the lake level exceeded 1456.20 feet on May 25th. The contractor had removed all of his equipment from the small dike upstream of the apron after earlier notification that the lake level would be increasing several more feet. The contractor had constructed the dike to assist in the repairs to the spillway apron. As you can see from this photo there are at least three large concrete slabs that had not been completed at the time of the flooding. Would need to check with a structural engineer, but thinking it would not be a good thing to run water through the spillway with a partially completed approach apron. I do know that there are some sort of anchors located within the apron that tie into the spillway structure to help prevent any movement (once again would need structural engineers evaluation). This is a 2.5 million dollar contract and is a ARRA project. It is my understanding that funding through ARRA is to run out at the end of September of this year. Not sure if this funding can be carried over, but if not, we will need to find another source to finish the construction.

The second two photo's are of the soil cement damage on the upstream face of the dam. There were numerous areas in need of repair with a few critical areas having as many as three lifts of soil cement missing or damaged. These repairs are made periodically to ensure that wave action does not find a path beneath the slabs and erode the underlining base material (embankment). Repairs are required when over 50 % of the soil cement coverage has been lost. The last repairs made to the soil cement face were completed in 1987. Prior to the flooding, I was informed that the repairs below elevation 1455.6 feet had been completed (contractor required to work on these areas first). There were several other areas above this level that were submerged before they could be repaired. I believe the initial construction cost was around \$500,000.

Both contractors were forced to de-mobilize because of the high reservoir level (both areas of repair are now several feet under the water). The contractors are to return to the job as soon as the water level approaches the top of conservation level. The cost of the projects

will undoubtedly increase substantially as a result of the work stoppage (mostly due to the de-mobilization and re-mobilization according to COR on the job).

Just one other note, we will be required to make smaller releases to the river for the Glen Elder Irrigation District this summer (up to 200 cfs). In the big picture of things It seems that releasing 1,500 cfs would not be all that significant. I do understand however that there is the perception that we would be releasing from Glen Elder Dam when other structures would be forced to store water.

Hope this helps,

Let me know if you require more information or have additional questions.

Bill Peck

Chief, Water Operations

McCook Field Office

U.S. Bureau of Reclamation

1706 West 3rd Street

McCook, NE 69001

(308)-345-1029

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 7:31 PM
To: Farhat, Jody S NWD02
Subject: RE: Elev and Storage Trace - last 10 years (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Almost. My daughter gets off work at 8:00 and will drive here to get me. We're trying to share 2 cars between 3 drivers.

My wife is car shopping.

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]

[REDACTED] (fax)

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:30 PM
To: [REDACTED] NWD02
Subject: Re: Elev and Storage Trace - last 10 years (UNCLASSIFIED)

Thanks. I'll take a look tonight or in the morning.

Btw, I thought you went home.

Jody

----- Original Message -----

From: [REDACTED] NWD02
To: Farhat, Jody S NWD02
Sent: Mon Jun 06 17:15:51 2011
Subject: Elev and Storage Trace - last 10 years (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

See 5 slides in v:\Public\Flood_2011> Elev and Storage Traces - last 10 years.pptx.

I'm still working on the snowpack (month by month) slides.

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]

402.996.3898 (fax)

Classification: UNCLASSIFIED

NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 7:16 PM
To: Farhat, Jody S NWD02
Subject: Elev and Storage Trace - last 10 years (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

See 5 slides in v:\Public\Flood_2011> Elev and Storage Traces - last 10 years.pptx.

I'm still working on the snowpack (month by month) slides.

[REDACTED].
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE

[REDACTED]
402.996.3898 (fax)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:13 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:51 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Blair, Amy E NWK
Sent: Monday, June 06, 2011 6:58 PM
To: Farhat, Jody S NWD02; [REDACTED] NWK; Blechinger, Erik T NWO
Subject: FW: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Is this something we have a record of? My guess is that he was not on the call this evening to hear discussions about comparison of floods and origins. You can see where he is going with this line of thought.

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:55 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases (UNCLASSIFIED)

I will send a more detailed question later this week, but basically how many times has locations north of gavins point flooded vs locations south?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:52 PM
To: Matousek, Mike
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you be a little bit more specific as to what you mean?

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:51 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases

Thanks amy. Does the corps have statistics on upper river flooding vs lower river flooding?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:31 PM
To: Matousek, Mike
Cc: [REDACTED] NWK [REDACTED]@usace.army.mil>
Subject: Missouri River Reservoir Releases

Mike, I am not sure if you are participating in the CODEL calls at 6 pm CDT, but on the call tonight someone asked to what degree we are operating for fish and wildlife. Jodi Farhat of RCC stated that since mid-August 2010 all releases have been based solely on flood control.

I thought this piece of info would be good for you to have in mind.

Amy E. Blair
USACE-Kansas City District
816.728.3651

Message sent via my BlackBerry Wireless Device

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 6:47 PM
To: Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Draft TPs for 2011 release (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Would probably help if I attached it, eh?! :-)

I've got a few tweaks I want to make ... will send it to you first thing in the morning.

[REDACTED]
-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 3:48 PM
To: Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: Draft TPs for 2011 release (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Most of this I think I pulled from your talking points ... as well as crafting a few based on answers I heard during interview today. Once you give input/bless ... I'll get it out for distro.

I am working on analogies for the "common man" as we discussed for volumes of water. Just wanted to get something out by this afternoon.

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Lazo, Carlos J SPK
Sent: Monday, June 06, 2011 6:41 PM
To: Farmer, Monique L NWO; Blechinger, Erik T NWO
Cc: Johnston, Paul T HQ@ NWO; Oldham, Margaret NWO; Farhat, Jody S NWD02; Williamson, Eileen L NWO; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: msnbc.com video: Disaster looms along the Missouri River (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

ALCON,

Tonight's coverage:

Surging water has Missouri River on the rise Rising, and still weeks from its crest, the river is threatening to topple levees and break banks across a number of states. NBC's Miguel Almaguer reports.

<http://www.msnbc.msn.com/id/3032619/vp/43302514#43302514>

TONE: NEUTRAL.

NOTE: Negative comments from former Governor.

V/R,

Carlos J. Lazo
Public Affairs Specialist
Work Cell: ([REDACTED])
carlos.j.lazo@usace.army.mil

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 6:28 PM
To: Farhat, Jody S NWD02
Subject: did I send you this final version? If so, disregard! :-) (UNCLASSIFIED)
Attachments: Master Manual TPs.docx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR 503-808-3760 (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Master Manual and General Reservoir Ops Talking Points:

The Missouri River Mainstem Reservoir System, which includes 6 dams, is operated in accordance with the Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

The reservoir system is designed to capture spring and summer runoff to provide flood control, and then allows the Corps to manage releases throughout the year to accommodate the other 7 authorized purposes: navigation, irrigation, water supply, hydropower, fish and wildlife, recreation, and water quality.

Each year an annual operating plan is developed to make necessary adjustments to our reservoir operations based on current and projected annual conditions, such as: amount of water received the previous year, rainfall events, plains snow pack, and mountain snow pack. This annual plan is circulated every fall and public meetings are held through the Missouri River Basin to gain inputs from the public and Tribes.

The actual operation of the System is reviewed and, if required, adjusted on a daily basis depending on current conditions.

Answers to frequently asked Master Manual Questions:

Were releases held back earlier in the season to protect nesting least terns and piping plovers?

Answer: No operational decisions this year were driven by the Endangered Species Act – we have been operating solely for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not have to implement in 2011 because flows were already above normal and because the risk to potential flooding downstream of the System. Summer adjustments to operations to minimize flooding of protected tern and plover eggs and chicks did not take place this year due to high flow conditions.

Will this change the way the reservoir system is operated in future years?

Answer: The reservoir system has been operated in accordance with the Master Manual. 2011 will be a new data point in the history of the Missouri River Basin, both in terms of hydrology and flood plain impacts, so this event will certainly be studied in the future. The Corps will certainly conduct an extensive internal review following the flooding this year for lessons learned. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

Prepared by: MRJIC, 6 June 2011

Approved by: Erik Blechinger/Jody Farhat

[REDACTED] NWO

From: Schenk, Kathryn M NWO
Sent: Monday, June 06, 2011 6:28 PM
To: [REDACTED] NWD02; Farhat, Jody S NWD02; Bertino, John J Jr NWO
Subject: Re: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Working it now.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] NWD02
To: Farhat, Jody S NWD02; Bertino, John J Jr NWO; Schenk, Kathryn M NWO
Sent: Mon Jun 06 16:24:39 2011
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Have you seen this? Maybe funds should be requested in the current drill for O&M Supplemental needs, to initiate coordination planning?

[REDACTED]
-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 3:24 PM
To: [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: FOUO

FYI

[REDACTED]
Chief, Business Technical Division
Northwestern Division, U.S. Army Corps of Engineers
Phone: [REDACTED]
Cell: [REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: [REDACTED] HQ02
Sent: Monday, June 06, 2011 11:57 AM
To: [REDACTED] MVD; [REDACTED] LRDR; [REDACTED] NWD; [REDACTED]
SWD
Cc: [REDACTED] RMC; [REDACTED] HQ02
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

This is a heads-up in case this hasn't come done the chain to you yet.

Let me know if you have any questions on this...

Chief, Civil Works Branch
Engineering & Construction
Headquarters, U.S. Army Corps of Engineers

From: Grisoli, William T MG HQ02
Sent: Saturday, June 04, 2011 3:29 PM
To: Walsh, Michael J MG MVD; Peabody, John W MG LRDOR; McMahon, John R BG NWD; Kula, Thomas BG SWD; Drolet, John D. COL LRDOR
Cc: Temple, Bo M MG HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02
Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

For the past two weeks, we have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to [REDACTED], [REDACTED], [REDACTED], [REDACTED], and I.

V/R,
Bill

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 6:25 PM
To: Farhat, Jody S NWD02; Bertino, John J Jr NWO; Schenk, Kathryn M NWO
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)
Attachments: Miss River Post Flood Assessment 2 June 2011 (3).docx

Importance: High

Classification: UNCLASSIFIED
Caveats: FOUO

Have you seen this? Maybe funds should be requested in the current drill for O&M Supplemental needs, to initiate coordination planning?

[REDACTED]
-----Original Message-----

From: Bhamidipaty, Surya NWD
Sent: Monday, June 06, 2011 3:24 PM
To: [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: FOUO

FYI

[REDACTED]
Chief, Business Technical Division
Northwestern Division, U.S. Army Corps of Engineers
Phone: [REDACTED]
Cell: [REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: Bank, Robert HQ02
Sent: Monday, June 06, 2011 11:57 AM
To: [REDACTED] MVD; [REDACTED] LRDR; [REDACTED] NWD; [REDACTED]
SWD
Cc: [REDACTED] RMC; [REDACTED] HQ02
Subject: FW: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED]:

This is a heads-up in case this hasn't come done the chain to you yet.

Attached is a message MG Grisoli sent out this weekend transmitting HQ recommendations for the post-flood assessment.

Let me know if you have any questions on this...

[REDACTED]
[REDACTED]
Chief, Civil Works Branch
Engineering & Construction
Headquarters, U.S. Army Corps of Engineers
[REDACTED]

-----Original Message-----

From: Grisoli, William T MG HQ02
Sent: Saturday, June 04, 2011 3:29 PM
To: Walsh, Michael J MG MVD; Peabody, John W MG LRDOR; McMahon, John R BG NWD; Kula, Thomas BG SWD; Drolet, John D. COL LRDOR
Cc: Temple, Bo M MG HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] G HQ02; [REDACTED] HQ02; [REDACTED] HQ; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02
Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Commanders:

For the past two weeks, we have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

The effort will utilize current authorities, policies, procedures, tools and terminology, and be conducted by USACE staff, supplemented by contracted staff, as appropriate, and generally follow the robust review and independence tenets of EC 1165-2-209. We are still working on a "straw-man" PMP that would guide the field's efforts and the details on staffing requirements.

I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to Mike Ensich, James Dalton, Karen DA, Steve Stockton, and I.

V/R,
Bill

Classification: UNCLASSIFIED
Caveats: FOUO

Mississippi River System Post Flood Assessment

Background: MVD has provided a proactive post-flood proposal to initiate an assessment and evaluation to repair and restore the MR&T System (Operation Watershed Recovery - draft PMP). HQUSACE has evaluated the MVD proposal and recommends that it be revised as follows.

HQUSACE Team Proposal: The assessment will consider the entire Mississippi River basin, including the flood control reservoirs associated with the Ohio, Arkansas, Mississippi and Missouri Rivers, and should also include a separate assessment of the upcoming Missouri River flood. The assessment should focus on developing the resources and scope of work necessary for two concurrent parts: (1) Immediate action supporting emergency repairs to pre-flood conditions, including: (a) Collecting perishable data, and (b) Determining the requirements for repairing the overall system to pre-flood condition. This part will have separate assessments for the ongoing Mississippi River flood (Part 1A) and the upcoming Missouri River flood (Part 1B); and (2) Conducting a post flood assessment of the system performance including a review of the operational decision-making process, with an outlook towards improving system operation. To ensure independence on the more subjective operational decision-making process evaluation, that effort would be conducted by a team outside of the impacted AOR and may be led by external members.

The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders. The effort will utilize current authorities, policies, procedures, tools and terminology, and be conducted by USACE staff, supplemented by contracted staff as appropriate, and generally follow the robust review and independence tenets of EC 1165-2-209.

Scope of Actions:

General: Develop Scope of Work

- Identify funding requirements for FY11, 12 and 13 for the overall assessment.
- Identify and staff PDTs consistent with the Management Oversight Structure described herein, to answer key questions regarding the USACE response and overall system performance.
- Develop scopes of work, PMPs and cost estimates for approval by the Steering Committee. This will include roles and responsibilities for all MSCs.
- Separate PMPs shall be developed for the three parts (Part 1A, Part 1B and Part 2) described below.

- Develop a Review Plan that is scalable and tailored to the objectives and timelines of this assessment, for approval by the Steering Committee.

Part 1: System Repair – This part will establish the immediate actions necessary to repair the Mississippi (Part 1A) and Missouri (Part 1B) Rivers systems to their pre-flood condition. Repairs may return the components to their original condition and may incorporate any improvements necessary to correct deficiencies identified during the assessment. It is anticipated that the Part 1A team would be led by MVD and the Part 1B team would be led by NWD. Roles and responsibilities for these teams will be developed by the steering committee and would include input from the Emergency Operation’s **“First Impressions Team”**. Schedules and final scopes of work will be defined in the PMPs prepared by team leads. Following are the tasks associated with Parts 1A and 1B:

- **Collect Perishable Data** - Collect perishable physical data as well as engineering data on system performance, water control and operational decisions, environmental and economic impacts, geographic extents of flooded areas, and non-Federal project operational impacts on the overall system performance. Data should also include storm data from other Federal and non-Federal sources (including the Interagency Task Force) and input from the CECW-HS “First Impressions Team”.
- **Identify Immediate System Repair Requirements** –Identify critical short term system “repair” activities (close floodways, repair eroded levees, dredge harbors and critical navigation channels, etc.) that must be initiated as soon as flood waters recede in order to be ready for the next high water event. Provide detailed cost estimate for needed repairs.
- **Identify Immediate Risk Reduction Measures** and actions needed to continue to reduce risks to the public and the system in the short term.

Part 2: Performance Assessment – This part will be a comprehensive examination, assessment and documentation, of the performance of the MR&T system and how the entire Mississippi River watershed, including the flood control reservoirs associated with the Ohio, Arkansas, and Missouri Rivers, was managed as a system during the historic Mississippi River basin flood. The team will be led by a SES external to the AOR (current or retired). Schedules and final scopes of work will be defined in the PMP prepared by team lead. Following are the tasks associated with Part 2:

- **Use Levee Screening Tool (LST) and the Levee Safety Action Classification (LSAC) processes.** Place findings of system requirements, special event inspections, National Levee Database information, and perishable physical system data in a risk framework using the LST and the LSAC processes. Use existing processes to review, evaluate, and submit findings to the Levee Safety Senior Oversight Group.

- **Evaluate Performance and Risks** of the overall system and evaluate risks from each segment of the system, utilizing data collected in Part 1, including using the Levee Screening Tool (LST) and the Levee Safety Action Classification (LSAC).
- **Review Decision Process.** Conduct a review of the communications between the MSCs, districts and HQUSACE, States and levee boards, as well as other agencies involved in making key operational decisions during the event and the impact of those decisions on local USACE projects and overall system performance.
- **Develop a Decision Chronology** and an assessment of the operational decisions made.
- **Evaluate the Communications** between MSCs, districts, HQ CoP leaders and other Federal, local agencies, and levee boards during the flood event.
- **Evaluate Economic and Environmental Impacts** of the operational decisions made.
- **Provide Recommendations on Operations.** Based the evaluations of the operational decisions and the system performance, recommend changes and improvements to the existing system that can be implemented within existing authorities.
- **Provide Recommendations Requiring Additional Authority.** Determine additional long term investigations, upgrades and changes that are outside the scope of existing authorities that will require separate authority, and lead to FY13 budgeting actions.

Questions to be answered by Part II:

1. How did the affected projects perform as a system during the flood event? How did the 2011 flood event compare to the design event and did the event expose any vulnerabilities?
2. How were the Missouri, Ohio and Arkansas Rivers operated during the Mississippi River flood and did they impact the mainstem Mississippi, including transfer of risk?
3. Were operations made with system-wide considerations, and how can coordination be improved?
4. How were operational decisions communicated among Corps offices, to local and state officials, other Federal Agencies, and the effected public?
5. How effectively were the operations of flood risk management components, under the jurisdiction of multiple MSCs, integrated across the watersheds to manage risk?
6. What insights can be gained for the effective operation of the system in the future?
7. What were the consequences associated with the event? (including: economic, life and safety, environmental, historical, and cultural losses)
8. What are the risks associated with the infrastructure systems? What immediate measures should be taken to reduce risk to the system in the short term?
9. Did river/reservoir forecasting provide the required real time data to meet the water control information needs of USACE operators and decision makers, and how could this forecasting be improved?

10. How did the levees, structures, and interior drainage systems perform? What insights can be gained for the effective repair of the system?
11. What are the long term measures, including their priority and urgency that should be taken to respond to issues raised over the system performance and to better integrate flood risk management systems within the watershed to reduce future flood risk?
12. What measures can be taken to improve USACE decision making during responses to major flooding events in the future?

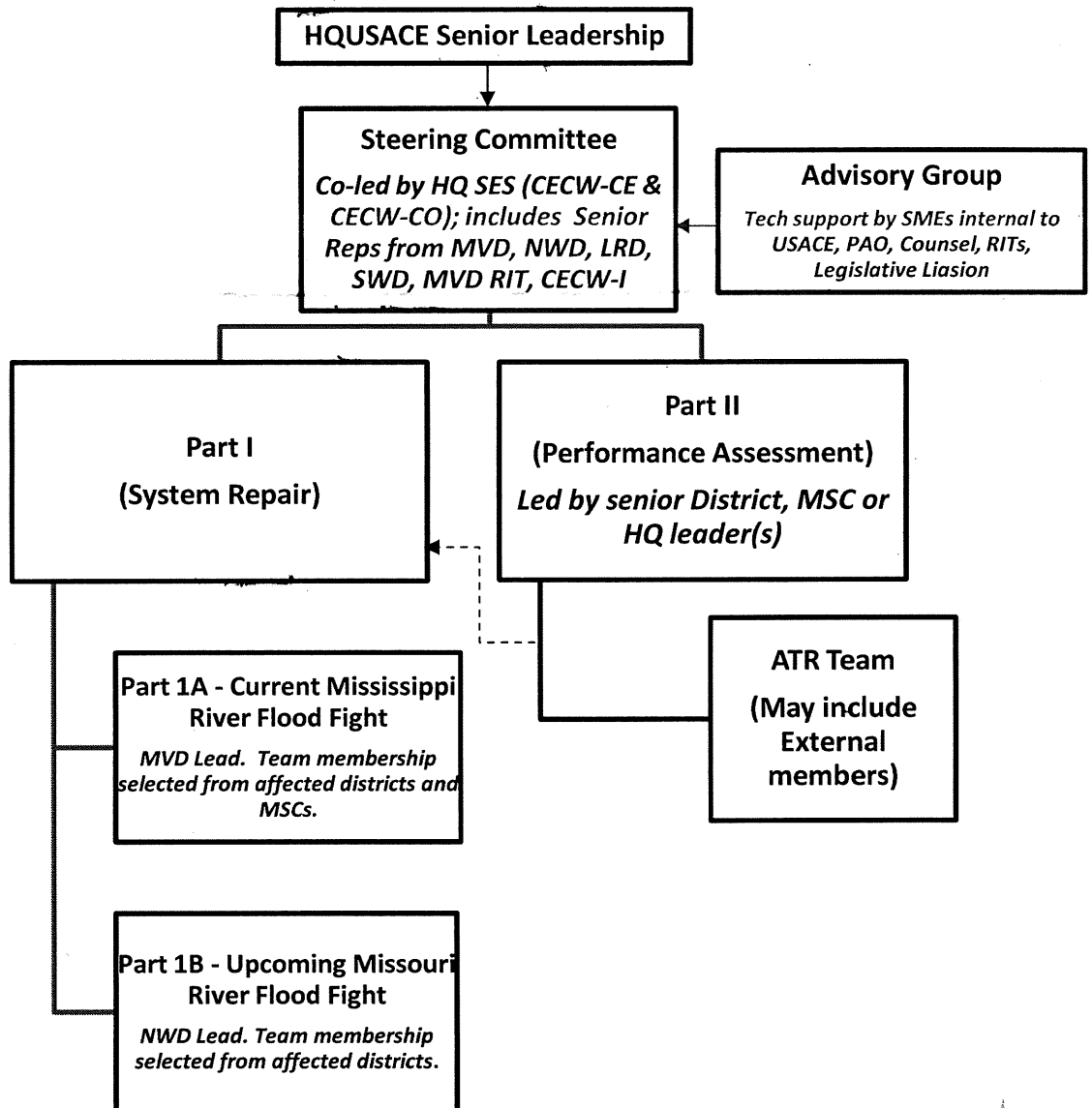
ATR Team: ATR will be accomplished in accordance with the approved Review Plan. An ATR team shall review the Part 2 assessment and documentation. The team shall consist of members outside the AOR and may include members external to USACE. The team should be formed at the start of Part 1 so that it can be engaged periodically as the system repairs proceed in order to provide background on the factors that may have influenced system performance and gain an understanding of the decisions made during, and immediately following, the flood. The ATR team should be more fully engaged in the assessment process (Part 2) to assure an open, continuous flow of information throughout the review process.

Management Oversight Structure:

To ensure adequate oversight and independence, a formal management structure, with senior-level (SES) leadership is proposed. This includes a Steering Committee co-led by SES from CECW-CE and CECW-CO, and senior leaders from the affected MSCs (LRD, NWD, MVD, SWD), and CECW-I and CECW-MVD. The Steering Committee will have overall responsibility for:

- Approving PMPs and Review Plans;
- Approving leadership of Part 2 assessment team;
- Monitoring progress and tracking schedules;
- Assuring full participation by all affected MSCs;
- Resolving scope overlap of Parts 1 and 2;
- Approving all reports and recommendations;
- Work with CECW-I to secure required funding;
- Upward reporting and communication.

The general oversight structure is as follows:



Schedule:

- | | |
|---|--------------------|
| 1. Part 1A - Initial Operational Capability (IOC) | 6/5/2011 (ongoing) |
| 2. Teleconference with MSCs | TBD |
| 3. Part 1B – IOC | TBD based on PMP |
| 4. Steering Committee IOC (kickoff meeting) | 6/15/2011 |
| 5. Part 2 – IOC | 7/15/2011 |
| 6. ATR – IOC | 8/15/2011 |

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 6:22 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: RE: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Scary photographs. I recommend approval for the deviation. The increased discharge from this dam would be less than one percent compared to ambient flow. There could be some political or public perceptions, but from practical stand point it does not create any additional damages to the levee system with this increased release.

[REDACTED]
[REDACTED]
Chief, Business Technical Division
Northwestern Division, U.S. Army Corps of Engineers
Phone: [REDACTED]
Cell: [REDACTED]
[REDACTED]@usace.army.mil

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 3:48 PM
To: [REDACTED] NWD; [REDACTED] NWD02
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - See the deviation request below regarding the operation of Glen Elder Dam. The additional releases from Glen Elder Dam will add to the already high flows in the Missouri River, but to a very small degree. I believe the conditions at Glen Elder warrant approval of this deviation. Let me know if you have any concerns with my pending approval of this deviation.

Jody

-----Original Message-----

From: [REDACTED] NWK
Sent: Monday, June 06, 2011 12:41 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

We have received the following information and attached photographs from the Bureau of Reclamation. There are significant safety concerns at Glen Elder Dam (Waconda Lake). We request a deviation to release 1,500 cfs through Glen Elder dam to minimize the chance of spillway release and help provide suitable conditions for repair of the structure. The deviation is requested until the construction is completed.

We understand that there are concerns with the Missouri River flow. However, the 1,500 cfs is one percent of the expected mainstem project release and would reduce the chance of a catastrophic situation in the Solomon basin.

Thank you for your consideration of this Glen Elder Dam (Waconda Lake) operation deviation.

[REDACTED]
[REDACTED]
(Acting) Chief, Hydrologic Engineering Branch
[REDACTED]

-----Original Message-----

From: Peck, William E [mailto:WPeck@usbr.gov]

Sent: Friday, June 03, 2011 4:09 PM

To: [REDACTED] NWK

Cc: [REDACTED] NWK

Subject: Ongoing Construction Projects at Glen Elder Dam

Hello [REDACTED]

Have attached a couple of photos for each of the two construction projects taking place at Glen Elder Dam (Waconda Lake). The first photo of the spillway approach apron (immediately upstream of the spillway gates) gives you an idea of the scope of the repairs that were taking place. This photo was taken early last November. The second photo of the spillway construction project was taken when the lake level exceeded 1456.20 feet on May 25th. The contractor had removed all of his equipment from the small dike upstream of the apron after earlier notification that the lake level would be increasing several more feet. The contractor had constructed the dike to assist in the repairs to the spillway apron. As you can see from this photo there are at least three large concrete slabs that had not been completed at the time of the flooding. Would need to check with a structural engineer, but thinking it would not be a good thing to run water through the spillway with a partially completed approach apron. I do know that there are some sort of anchors located within the apron that tie into the spillway structure to help prevent any movement (once again would need structural engineers evaluation). This is a 2.5 million dollar contract and is a ARRA project. It is my understanding that funding through ARRA is to run out at the end of September of this year. Not sure if this funding can be carried over, but if not, we will need to find another source to finish the construction.

The second two photo's are of the soil cement damage on the upstream face of the dam. There were numerous areas in need of repair with a few critical areas having as many as three lifts of soil cement missing or damaged. These repairs are made periodically to ensure that wave action does not find a path beneath the slabs and erode the underlining base material (embankment). Repairs are required when over 50 % of the soil cement coverage has been lost. The last repairs made to the soil cement face were completed in 1987. Prior to the flooding,

I was informed that the repairs below elevation 1455.6 feet had been completed (contractor required to work on these areas first). There were several other areas above this level that were submerged before they could be repaired. I believe the initial construction cost was around \$500,000.

Both contractors were forced to de-mobilize because of the high reservoir level (both areas of repair are now several feet under the water). The contractors are to return to the job as soon as the water level approaches the top of conservation level. The cost of the projects will undoubtedly increase substantially as a result of the work stoppage (mostly due to the de-mobilization and re-mobilization according to COR on the job).

Just one other note, we will be required to make smaller releases to the river for the Glen Elder Irrigation District this summer (up to 200 cfs). In the big picture of things it seems that releasing 1,500 cfs would not be all that significant. I do understand however that there is the perception that we would be releasing from Glen Elder Dam when other structures would be forced to store water.

Hope this helps,

Let me know if you require more information or have additional questions.

Bill Peck

Chief, Water Operations

McCook Field Office

U.S. Bureau of Reclamation

1706 West 3rd Street

McCook, NE 69001

(308)-345-1029

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:51 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Blechinger, Erik T NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Great ... the call center has fielded many calls on this point.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:36 PM
To: [REDACTED] NWD; Farmer, Monique L NWO; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Blechinger, Erik T NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I think I will mention this in my remarks tonight too

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:22 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Blechinger, Erik T NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Great, thanks Jody. I will work these into talking point sheets by subject.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:19 PM
To: Farmer, Monique L NWO; [REDACTED] NWD; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

The answer should be "these peak releases will likely extend well into August". Our 3 week forecast shows Fort Peck still in surcharge, and Garrison and Oahe still in exclusive on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies both to our mainstem dams and all the levees etc downstream. We're going to meet with Hydrologic Engineering tomorrow morning to look at several scenarios; we'll have more info in a day or two.

Jody

-----Original Message-----

From: Farmer, Monique L NWO

Sent: Monday, June 06, 2011 4:59 PM

To: [REDACTED] NWD

Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02

Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD

Sent: Monday, June 06, 2011 4:57 PM

To: Farmer, Monique L NWO

Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

[REDACTED]

-----Original Message-----

From: Farmer, Monique L NWO

Sent: Monday, June 06, 2011 4:52 PM

To: [REDACTED] NWD

Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Can you have Jody check this and add info.

The length of time for the water to recede will depend upon several conditions, including (???)

Also, how long do we expect to maintain releases at 150,000 cfs. Some of us are saying through the end of July. Others are saying into August. What is the estimate we want to provide and stay with?

NWO

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:51 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 6 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
6 June 2011

We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

We are also getting many questions regarding the duration of the high flows. These peak releases will likely extend well into August. Our reservoir forecast posted on the web shows Fort Peck still in the surcharge pool, and Garrison and Oahe still in their exclusive flood control pools on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies to our mainstem dams as well as impacted communities, infrastructure and flood risk mitigation projects downstream of the dams. Over the next several days we will be looking at several scenarios for evacuating the flood water stored in the mainstem reservoir system and will provide better estimates when they become available.

Releases

- Each day we will be updating our reservoir forecast daily and will be posting it on the web when it is complete, generally in the late afternoon. We encourage you to monitor the web site and participate in these daily calls to ensure you have the latest and best information available
- Important to note that any time a release change of 10,000 cfs or more is planned at one of the reservoirs, the releases may be stepped up incrementally throughout the day to avoid rapid changes in downstream river levels. If you have specific concerns or questions with the come-up schedule, please call our office.
- Planned releases at the 6 dams based on the forecast we posted on the web this afternoon did not change from yesterday's forecast. The releases are as follows:
 - Fort Peck –Releases today 45,000 cfs, increasing to 50,000 cfs tomorrow.
 - Garrison –120,000 cfs today, increasing to 130,000 cfs on Tuesday, then gradually stepping up to 150,000 cfs no later than mid-June.
 - Oahe and Big Bend –Releases today 140,000, and increasing to the peak release rate of 150,000 cfs tomorrow.
 - Fort Randall – 127,000 cfs today, going to 137,000 cfs on Tuesday. Releases will eventually reach 150,000 cfs no later than mid June.

- Gavins Point – 120,000 cfs today, going to 130,000 cfs tomorrow and then 140,000 cfs on Wednesday. Releases will eventually reach 150,000 cfs no later than mid June.
- The forecast is based on best available information at this time; actual releases are based on conditions on the ground and are subject to change.

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between

1989 and 2004, analyzed the potential to provide additional flood control storage by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.

- Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.
- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997

[REDACTED] NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 5:46 PM
To: [REDACTED] NWO
Cc: Farhat, Jody S NWD02; Williamson, Eileen L NWO; Oldham, Margaret NWO; [REDACTED], [REDACTED] NWD
Subject: Flood_Fight_Talking_Points_06June11.docx (UNCLASSIFIED)
Attachments: Flood_Fight_Talking_Points_06June11.docx

Classification: UNCLASSIFIED
Caveats: NONE

Today's TP updates. Updates highlighted. Jody has blessed the master manual TPs already.

Monique

Classification: UNCLASSIFIED
Caveats: NONE

Key Messages and Talking Points

ISSUE: Repeated rounds of heavy rain (300 to 600 percent of normal), coupled with record plains snowpack have pushed the Missouri River Reservoirs to very high levels nearly filling the reservoirs, reducing any flexibility built into our operations for 2011 and requiring aggressive and historic releases out of the main stem reservoirs. Weather conditions continue to change rapidly and we use real-time operations and the best information available at the time to determine our release schedules to keep pace with the rapidly changing weather conditions. High releases will continue through at least mid-August to evacuate stored floodwater. We are communicating those changes as soon as new information becomes available.

BACKGROUND: The Omaha District provides timely and effective technical advice and direct assistance before and during flood events with a goal of reducing flooding risks. In any disaster, our top priorities are: Support immediate emergency response priorities; Sustain lives with critical commodities, temporary emergency power and other needs; and, initiate recovery efforts by assessing and restoring critical infrastructure.

KEY/COMMAND MESSAGES

1. PUBLIC SAFETY

- Protecting lives is our number one priority. People living along the Missouri River and Platte River basin are encouraged to have plans to evacuate, protect their possessions and property.
- The Missouri River main stem system is operating as designed. Without the proper operation of the system and our emergency response efforts, more lives and property would be at risk.
- We have a vigilant dam safety program. Our dams are inspected and maintained on rigid schedules and are well-prepared to handle the floodwaters. This is what they were designed to do. Our dams are structurally sound and are not experiencing any symptoms that would indicate potential failure.
- Safety is a shared responsibility among federal, state, local, Tribal and private partners and we communicate these risks so people can make well-informed decisions about their safety. Safety risks associated with flooding events include: high water on levees, flooded roads, high flowing streams and environmental issues such as well contamination.
- The Corps coordinates with local officials and communicates with the public on the condition of Corps owned dams and the Missouri River system.
- We encourage the public to become educated and be aware of local conditions. Planning and preparedness may include purchasing weather alert radios, keeping emergency supplies on hand, and determining personal evacuation routes.

2. TIMELY RESPONSE & PREPAREDNESS

- We take our responsibilities seriously and are working to do everything within our ability to reduce the risks from these flood events on the Missouri River and Platte River Basin and provide assistance to the communities impacted by them.
- The Corps has a well-trained team of emergency response personnel engaged at critical spots along the Missouri River and Platte River Basin with the equipment and materials available for this flood fight.
- In coordination with Tribal governments and States, the Corps has supplied millions of sandbags, pumps, and thousands of feet of Hesco bastions for the construction of temporary levees to help communities prepare for the floodwaters. This is a national effort with many additional supplies coming in from across the country.

3. ASSISTANCE TO COMMUNITIES AND TRIBAL GOVERNMENTS

- Under the authority of Public Law 84-99 and the Flood Control and Coastal Emergencies appropriations, Corps emergency management personnel collaborate with local, county, state, federal and tribal officials to ensure coordinated efforts in flood risk reduction and emergency response activities.
- When disasters occur, it is not just a local Corps district or office that responds. Personnel and other resources are mobilized across the country to carry out our response missions.

4. EFFECTIVE COMMUNICATION

- State and local emergency management teams will be the point of contact for residents needing information about flooding in their area.
- We are using all available communication tools to keep the public informed of our emergency response operations, including:
 - Internet <http://www.nwo.usace.army.mil> - click the flooding link/maps are here and are shared with local emergency management offices
 - OmahaUSACE on Facebook, Twitter, Flickr and YouTube
 - The Missouri River Joint Information Center can provide citizens in communities living along the Missouri River basin with accurate, timely responses to their questions. The local contact number is: (402) 996-3877. The toll free number is: (877) 214-9110
 - Or, email us at MRJIC@usace.army.mil

Missouri River Basin

- Releases from the Missouri River dams last fall and throughout the winter of 2010 were above normal to complete the evacuation of the 2010 floodwaters. The full flood control capacity of the main stem reservoir system was available at the start of the 2011 runoff season.
- Each flooding event is unique. Varying factors such as rainfall location along the rivers and tributaries, and snowpack melt off patterns shape the characteristics of each flood.
- We are in flood fights all along the Missouri River basin and are operating the river for flood risk reduction. We have not operated the system under the Endangered Species act in 2011 because of high water levels.
- Our goal is to evacuate reservoirs to provide time for damage assessment and repair prior to next year's runoff season.
- This will be a long and sometimes frustrating and intense effort, but we are committed to working together to avoid the loss of life, minimize damages and help communities. Flooded areas are expected to be inundated for several months.
- Five of the six dams are projected to have releases of 150,000 cubic feet per second. Previous high releases were 70,000 cfs out of Gavins Point Dam in the fall of 1997.
- At these levels, additional releases do not significantly change the footprint of the flooding, only the depth. Moving water out of the reservoirs is essential to prevent the spillways from being overtopped which would make flooding much worse.
- These peak releases will likely extend well into August until we have evacuated enough stored flood waters to bring the reservoirs back down to a manageable level.
- The Missouri River Mainstem Reservoir System, which includes six dams, is operated in accordance with the Missouri River Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. It is based on more than 100 years of historical runoff records (1898-2004).
- The Corps revised the Master Manual in 2004 following a 14-year period of public input from Congressional, State, Tribal and other stakeholders throughout the basin.
- No operational decisions this year were driven by the Endangered Species Act – we have been operating solely for flood risk reduction.

- This flood fight is a national Corps of Engineers effort with highly-trained personnel providing assistance from all over the country and many additional supplies coming in from across the country.
- Our hearts go out to those communities impacted by floodwaters and we will do everything in our ability to provide assistance. We are committed to this flood fight.
- The U.S. Army Corps of Engineers announced June 5, that a partial-levee breach occurred on Missouri River levee L-575, near Hamburg, Iowa. The levee collapsed on itself due to an under seepage issue. The Corps did not open the levee. A problem occurred while contractors were working on repairs to a portion of this levee at an area upstream. The levee breach follows weeks of high flows and record releases from the main stem dams in Montana and the Dakotas. The Corps continues to evaluate the inundation areas and is in the process of heightening a levee at an alternative location, Ditch 6, in Hamburg, Iowa to provide flood risk reduction for the community of Hamburg.

NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 5:45 PM
To: Farmer, Monique L NWO; Ruch, Robert J COL NWO
Cc: [REDACTED] NWD; Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The reporter said that COL Ruch said "end of July" when he was on-site at Pierre. Jody's latest Talking Points indicated "at least through mid-August." I believe it's the same reporter that's been calling into the 1800 call.

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]
[REDACTED] (fax)

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 5:27 PM
To: Ruch, Robert J COL NWO
Cc: [REDACTED] NWD; Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] (Water Management) was on a tele-press conference call held by NWS today where he said a reporter at Pierre said Col. Ruch said he expects water to be high through mid-July. But Jody has been saying through August. If we expect high water into August for sure, are we saying into mid-August or just leaving it at August.

Just want to be sure they are saying the same thing tonight so reporters are not questioning our projections.

Monique

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:12 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

What is COL Ruch saying?

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED] NWD
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:57 PM
To: Farmer, Monique L NWO
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

[REDACTED]

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:52 PM
To: [REDACTED] NWD
Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Can you have Jody check this and add info.

The length of time for the water to recede will depend upon several conditions, including (???)

Also, how long do we expect to maintain releases at 150,000 cfs. Some of us are saying through the end of July. Others are saying into August. What is the estimate we want to provide and stay with?

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 5:34 PM
To: McMahon, John R BG NWD
Cc: Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; [REDACTED] NWD; Tipton, Robert A Col NWD; Farhat, Jody S NWD02
Subject: FW: Talking Points on Master Manual (UNCLASSIFIED)
Attachments: Master Manual TPs.docx

Sir;

Attached are the talking points we worked up for the Master Manual. Been getting a lot of questions regarding our procedure for operating the system. Believe it should be your opening comments for the next call you are on.

Erik

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:55 PM
To: Blechinger, Erik T NWO; Farmer, Monique L NWO
Subject: Talking Points on Master Manual (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Erik/Monique,

Attached are talking points on the Master Manual for your use/dissemination as appropriate.

I plan to create a book for the "call-in center".

More coming ... still working approval with Jody on answers to Spring 2011 releases -- why is it so high?

[REDACTED]

[REDACTED]

Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division, Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Master Manual and General Reservoir Ops Talking Points:

The Missouri River Mainstem Reservoir System, which includes 6 dams, is operated in accordance with the Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

The reservoir system is designed to capture spring and summer runoff to provide flood control, and then allows the Corps to manage releases throughout the year to accommodate the other 7 authorized purposes: navigation, irrigation, water supply, hydropower, fish and wildlife, recreation, and water quality.

Each year an annual operating plan is developed to make necessary adjustments to our reservoir operations based on current and projected annual conditions, such as: amount of water received the previous year, rainfall events, plains snow pack, and mountain snow pack. This annual plan is circulated every fall and public meetings are held through the Missouri River Basin to gain inputs from the public and Tribes.

The actual operation of the System is reviewed and, if required, adjusted on a daily basis depending on current conditions.

Answers to frequently asked Master Manual Questions:

Were releases held back earlier in the season to protect nesting least terns and piping plovers?

Answer: No operational decisions this year were driven by the Endangered Species Act – we have been operating solely for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not have to implement in 2011 because flows were already above normal and because the risk to potential flooding downstream of the System. Summer adjustments to operations to minimize flooding of protected tern and plover eggs and chicks did not take place this year due to high flow conditions.

Will this change the way the reservoir system is operated in future years?

Answer: The reservoir system has been operated in accordance with the Master Manual. 2011 will be a new data point in the history of the Missouri River Basin, both in terms of hydrology and flood plain impacts, so this event will certainly be studied in the future. The Corps will certainly conduct an extensive internal review following the flooding this year for lessons learned. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

Prepared by: MRJIC, 6 June 2011

Approved by: Erik Blechinger/Jody Farhat

NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 5:27 PM
To: Ruch, Robert J COL NWO
Cc: [REDACTED] NWD; Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02; Grode, Kevin R NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] (Water Management) was on a tele-press conference call held by NWS today where he said a reporter at Pierre said Col. Ruch said he expects water to be high through mid-July. But Jody has been saying through August. If we expect high water into August for sure, are we saying into mid-August or just leaving it at August.

Just want to be sure they are saying the same thing tonight so reporters are not questioning our projections.

Monique

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:12 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

What is COL Ruch saying?

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED] NWD
Cc: Oldham, Margaret NWO; Thomas, Kimberly S NWO; Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:57 PM
To: Farmer, Monique L NWO
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

-----Original Message-----

From: Farmer, Monique L NWO

Sent: Monday, June 06, 2011 4:52 PM

To: [REDACTED] NWD

Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Can you have Jody check this and add info.

The length of time for the water to recede will depend upon several conditions, including (???)

Also, how long do we expect to maintain releases at 150,000 cfs. Some of us are saying through the end of July. Others are saying into August. What is the estimate we want to provide and stay with?

Classification: UNCLASSIFIED

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Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:22 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Blechinger, Erik T NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Great, thanks Jody. I will work these into talking point sheets by subject.

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:19 PM
To: Farmer, Monique L NWO; [REDACTED] NWD; Ruch, Robert J COL NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

The answer should be "these peak releases will likely extend well into August". Our 3 week forecast shows Fort Peck still in surcharge, and Garrison and Oahe still in exclusive on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies both to our mainstem dams and all the levees etc downstream. We're going to meet with Hydrologic Engineering tomorrow morning to look at several scenarios; we'll have more info in a day or two.

Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED] NWD
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:57 PM

To: Farmer, Monique L NWO
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

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From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:52 PM
To: [REDACTED] NWD
Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you have Jody check this and add info.

The length of time for the water to recede will depend upon several conditions, including (???)

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Caveats: NONE

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Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 5:14 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD; Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

You are correct Jody. I jumped the mark. We have not committed to an external review and that should be removed.

I just believe we will have one but that is not official.

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 4:02 PM
To: [REDACTED] NWD; [REDACTED] NWD02; Blechinger, Erik T NWO
Subject: FW: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My edits in the attached. Have we committed to an external review? This is the first I've heard of it.

Thanks for pulling these together, Christina.

Jody

-----Original Message-----

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 2:58 PM
To: [REDACTED] NWD; Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Attached are my changes as tracked for consideration. Thank you for the opportunity to comment.

Somehow, I think we need to start carefully formulating a message that makes it clear that mother nature holds the upper hand here and the Corps manages the hand we are dealt. Just a thought.

Rose

-----Original Message-----

From: [REDACTED] NWD

Sent: Monday, June 06, 2011 2:25 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: Blechinger, Erik T NWO
Subject: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Thanks to your help and the gracious assistance of Rose, I've crafted these from your previous talking points and refined them a bit based on recurring questions I'm hearing. Please review for technical accuracy and let me know what you think.

Once finalized, I was planning to distribute to Erik for dissemination to senior leaders for their use, the phone center, and PA for incorporation in media preps, etc.

I plan to do this on a variety of topics ... so more to come.

Christina

[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:12 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: RE: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

What is COL Ruch saying?

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED] NWD
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:57 PM
To: Farmer, Monique L NWO
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I know off the top, based on Jody's remarks at the 1800 call, that she currently expects 150,000 releases into August. The 3-week forecast that is published just shows three weeks out, which of course only into July.

I will get the other for you. Good questions ... we get lots of calls from citizens on those very points!

[REDACTED]

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:52 PM
To: [REDACTED] NWD
Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 5:11 PM
To: Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: Suggested point of emphasis in your remarks tonight (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

I would suggest you emphasize the following point tonight during your remarks (or if you want I can hold this for Brig Gen McMahon for the next time he's on).

"We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

"We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed."

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:59 PM
To: [REDACTED] NWD
Cc: Oldham, Margaret NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: How long should people expect these high water levels? (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

OK. We just need to ensure that she and Col. Ruch are saying the same thing to stakeholders. May need to be clarified on tonight's call.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:57 PM
To: Farmer, Monique L NWO
Subject: RE: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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[REDACTED]

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Sent: Monday, June 06, 2011 4:52 PM
To: [REDACTED] NWD
Subject: Talking Point Question (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 4:55 PM
To: Farhat, Jody S NWD02
Subject: FW: Question from Thune

Jody - can you help me with answers for the questions below.

Thanks,
[REDACTED]

-----Original Message-----

From: Schwietert, David (Thune) [mailto:d_schwietert@thune.senate.gov]
Sent: Monday, June 06, 2011 4:33 PM
To: Eckert Uptmor, Kayla A NWO
Subject: Question from Thune

[REDACTED]

I talked to the Senator earlier today and he was curious what the modeling would show if the Corps had released additional water from Garrison/Oahe starting at the beginning of this year.

For instance, if both reservoirs had releases at their record flows (65,000 cfs and 59,000 cfs) what would that have done to free up additional space in the flood control zone.

Something tells me that even if these elevated releases occurred between January and May, there would still need to be record releases out of both dams (higher than the previous record flows) to accommodate the high precipitation/runoff.

Above all, I think this would help to show what today's situation would be if such releases were put in place from Jan-May. Something tells me that based on the amount of precipitation/runoff that we've witnessed, it would still have likely required 100+ cfs out of both dams.

Does this make sense?

Thanks,

Dave

David Schwietert

Legislative Director

U.S. Senator John Thune (R-SD)

511 Dirksen Senate Office Building

Washington, DC 20510

202-228-5340 (direct)

866-850-3855 (toll free number)

[REDACTED] NWO

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 4:29 PM
To: McMahon, John R BG NWD; [REDACTED] NWD
Cc: Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Farhat, Jody S NWD02; [REDACTED] NWO
Subject: FW: Start of Event (UNCLASSIFIED)
Attachments: Flood Update #65.rtf

Sir;

Believe the Operation Mighty Mo started on 20 May 2011 based on conversations with Kim Thomas and Jody Farhat.

Erik

-----Original Message-----

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 4:23 PM
To: Blechinger, Erik T NWO
Subject: Start of Event (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Precipitation fell throughout the District for the 24 hours ending 7:00 am 20 May 2011 except for the Rocky Mountains in Montana. National Weather Service estimated rainfall indicates southwestern South Dakota generally had 2.0-2.5" of rain with a 2.5-3.0" center over the Black Hills and the Belle Fourche and Little Missouri Rivers north of the Black Hills. Portions of the sandhills in Nebraska had 1.0-1.5" of rain. Another band extended from north central Kansas, through Lincoln, Omaha, and Sioux City with general amounts of 1.5-2.5" with a 5.0-6.0" center over north central Kansas.

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED
Caveats: FOUO

From: CENWO-EOC NWO
Subject: FW: Flood Update #65 (UNCLASSIFIED)

-----Original Message-----

From: [REDACTED] NWO
Sent: Friday, May 20, 2011 4:53 PM
To: DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO.
Cc: CENWD-EOC NWD; [REDACTED] NWO; [REDACTED] HQ02; [REDACTED], [REDACTED] NWK
Subject: Flood Update #65 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

****EMERGENCY OPERATIONS****

1. Situation:

Extensive and heavy rain currently moving throughout the District and forecasted to continue. New record stage at North Platte, NE and forecasted to go higher, currently evaluating infrastructure that will be affected.

Mountain snowpack on May 20, 2011 is 120% of the 30-year peak historical average. The Upper Missouri River snowpack is currently 111%, the Upper Yellowstone is 126%, the Upper North Platte Basin is 145% and the South Platte Basin is 138% of the 30-year peak historical average. Snow Water Equivalents at these stations have crested and are receding. Water Control is monitoring the high basin snowpack and is coordinating with appropriate agencies.

COL Ruch and staff will meet with State EM personnel from both NE and WY on 23 May 2011 including the NE Lieutenant Governor in North Platte, NE and Cheyenne, WY. The team will discuss the current situation and forecast.

All Missouri Mainstem Dams (Ft. Peck, Garrison, Oahe, Ft. Randall, and Gavins), with the exception of Big Bend, are passing water through either their spillway, flood tunnels, or outlet works in addition to the water through the powerhouse. Garrison is 0.4' from exclusive flood control and Oahe is 0.1' from exclusive flood control.

Participated in NWD CMT briefing BG McMahon on the current and forecasted flooding in the NWO District.

Alabama Tornadoes: Tim Gouger is currently deployed to support the debris SME and Eileen Williamson is deployed to provide PAO support to MVS.

2. Weather:

2a. Past Precipitation:

Precipitation fell throughout the District for the 24 hours ending 7:00 am 20 May 2011 except for the Rocky Mountains in Montana. National Weather Service estimated rainfall indicates southwestern South Dakota generally had 2.0-2.5" of rain with a 2.5-3.0" center over the Black Hills and the Belle Fourche and Little Missouri Rivers north of the Black Hills. Portions of the sandhills in Nebraska had 1.0-1.5" of rain. Another band extended from north central Kansas, through

Lincoln, Omaha, and Sioux City with general amounts of 1.5-2.5" with a 5.0-6.0" center over north central Kansas.

2b. Future Precipitation:

The day 1 QPF (700 hours Friday to 700 hours Saturday) A large band of 0.75-1.0" of rainfall extending generally along the Missouri River from above Fort Peck to Rulo. A nearly 2.0" center is shown over the Upper Missouri and Yellowstone Rivers.

The day 2 QPF (700 hours Saturday to 700 hours Sunday) The same band of precipitation moves eastward with the center over eastern Iowa, the upper James River in North Dakota, and the upper Milk River in Montana. Amounts are generally 0.1-1.0".

The day 3 QPF (from 700 hours Sunday to 700 hours Monday) The storm has progressed north and east, with up to 0.1" over most of South Dakota, and .1-.25" over most of North Dakota with up to 0.5" over the James River.

2c. Temperatures:

Attached is a spreadsheet with the high and low temperatures for the next 6 days at Billings, MT; Cody WY; Sheridan WY; Saratoga, WY; and Casper, WY. High temperatures are in the 50s today at these locations, warming to the 60s by Sunday, then 50s by Tuesday. Lows are in the mid 30s at Saratoga, WY and generally low 40s at the other stations.

3. Hydro Status:

3a. River/Current Stage/Forecast Stage/Date of Peak:

North Dakota

- * James River at Jamestown/11.6'(1,850 cfs)/steady
- * James River at LaMoure/11.5'/steady

Nebraska

- * North Platte River at North Platte/6.82'/7.1'(4380 cfs)/May 24
- * North Platte River at State Line/5.89
- * Missouri River at Omaha/25.1 Up 0.1'
- * Missouri River at NE City/19.30' Down 0.1'
- * Missouri River at Brownville/35.00' Down 0.2'
- * Missouri River at Rulo/18.4' Down 0.2'

3.b Reservoirs:

The Bureau of Reclamation's Glendo Reservoir (WY) is at elevation 4629.1 ft msl with 87% of the multipurpose pool occupied. The USBR May 1 forecast is for over 2 million acre-feet of runoff into the North Platte Basin, 287% of normal.

Pipestem Reservoir (ND) rose 0.12' yesterday to elevation 1486.52 ft-msl. Yesterday's daily inflows were 295 cfs and the release was 200 cfs. 69.9% of the flood pool is occupied.

Jamestown Reservoir (ND) fell 0.21' yesterday to elevation 1449.52 ft-msl. The pool has dropped about 1.8 feet from its crest of 1451.3 ft-msl. Yesterday's daily inflows were 368 cfs. Releases were 1600 cfs. 70.7% of the flood pool is occupied. The combined release from both dams is 1,800 cfs.

Fort Peck Dam (MT)

Pool Elevation: 2242.90 ft-msl
24 hr change: 0.13'
Inflow: 34,000 cfs
Release: 19,700 cfs

Garrison Dam (ND)

Pool Elevation: 1849.58 ft-msl
24 hr change: 0.01'
Inflow: 63,000 cfs
Release: 52,800 cfs

Oahe Dam (SD)

Pool Elevation: 1616.95 ft-msl
24 hr change: 0.08'
Inflow: 61,000 cfs
Release: 52,500 cfs

Big Bend Dam (SD)

Pool Elevation: 1420.02 ft-msl
24 hr change: 0.13
Inflow: 49,000 cfs
Release: 45,400 cfs

Fort Randall Dam (SD)

Pool Elevation: 1354.95 ft-msl
24 hr change: -0.21'
Inflow: 52,000 cfs
Release: 56,900 cfs

Gavin's Point Dam (SD)

Pool Elevation: 1205.76 ft-msl
24 hr change: -0.03
Inflow: 57,000 cfs
Release: 57,000 cfs

4.a Emergency Operations:

4.a.1 Nebraska:

NWO personnel, Larry Boardman (Geotech) and Nicole Stubbs (Hydro), deployed yesterday to provide technical assistance to the communities of Bridgeport, Lewellen, and North Platte along the North Platte River Basin. The team completed the inspection of the levee in Bridgeport. They presented their findings and recommendations to repair the deficiencies in the local levee(not Federal) to the city officials and Tom Hayden, Nebraska DNR, this morning.

NWO personnel, Tommy Aldmeyer (Geotech) and Lowell Blankers (Hydro) deployed today to provide assistance in communities upstream of Lewellen, which includes Henry, Morrill, Mitchell, Scottsbluff, Terrytown, Gering, Minatare, McGrew, and Lisco. They met with Scottsbluff officials this afternoon to gather contact information for communities within the County.

4.a.2 Montana - No Change

4.a.3 North Dakota - Participated in ongoing call with the North Dakota stakeholders to include: Cities, Counties, ND DES, and State Water Commission. The call discusses the releases from the reservoirs as well as forecasted releases.

4.a.4 South Dakota - NWO personnel, Gordon Lewis (Geotech) and Neil Vohl (Hydro) deployed today to provide technical assistance to the City of Bristol. The city is asking for help in determining what could be done, what needs to be done or steps the city should strive for to decrease or eliminate the possible flooding problems from three sloughs that are now lake size bodies that drain through the storm sewer system in town.

4.b Funding:

- * Total Code 200 Funding received to date for this event: \$1,762,425
- * Total Code 200 Funding revoked to date for this event: \$2,600,000
- * Class 219 - Emergency Operations - Direct Assistance - \$250,000 - WAD and FAD received 3/14/2011
- * Class 219 - Emergency Operations - Direct Assistance - \$3.825M - WAD received 03/15/11. FAD received 03/16/11.
- * Class 219 - Additional Funds Request on 24 March - \$231,425 - WAD and FAD received 03/24/11.
- * Class 219 - Emergency Operations - Direct Assistance - \$2.5M revoked - 4/13/11
- * Class 219 - Emergency Operations - Direct Assistance - \$100k revoked - 4/22/11
- * Class 210 - Response Operations - Alabama Tornadoes - \$56k - MIPR - 4/30/11
- * Class 210 - Response Operations - Alabama Tornadoes - \$25k - Request and received for EOC Operations and deployments on 4/30/11

4.c Number of Personnel Supporting EOC Operations: 15

4.d EOC Activation - Level III - Partial Activation(Hours: 0700 to 1700)

ADVANCE MEASURES

1. Situation:

Currently monitoring high snow water equivalents in WY and MT.

2. Advance Measures:

2.a.2 WYOMING - The State of Wyoming added an additional location at Ten Sleep for technical assistance, this has been completed. Additionally, USACE personnel are working the technical assistance request from the Wind River Reservation. The 8 initial assessments will be completed on Monday, 23 May.

2.b Funding:

- * Total Code 500 Funding received to date: \$787,904














- * Class 520 Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/2/11.
- * Class 52A Additional Request for Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/10/11.
- * Class 520 Additional Request for Funding - Advance Measures - Technical assistance - \$101,640. WAD and FAD received on 3/24/11.
- * Class 519 Funding - Advance Measures - Direct Assistance - \$376,264. WAD and FAD received on 3/28/11.
- * Class 520 Funding - Advance Measures - Technical assistance - \$110k - FAD received on 05/12/11.

2.c Number of Personnel Supporting Advance Measures EOC Operations: 10

3.c EOC Activation - Level III - Partial Activation(Hours: 0700 to 1700)

[REDACTED]
 Chief, Readiness Branch
 U.S. Army Corps of Engineers - Omaha District
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Classification: UNCLASSIFIED
 Caveats: FOUO

					
TempOutlook_20May11.xlsx	Day1QPF20May11.gif	Day2QPF20May11.gif	Day3QPF20May11.gif	24hrPrecip20May11.jpg	dailybull 20.5.11.pdf
					
5.20.11 TribResSumm.pdf	Upper Missouri Snow 5.20.11.pdf...	Upper Yellowstone Snow 5.20.11...	Upper North Platte Snow 5.20.1...	South Platte Snow 5.20.11.pdf	Pipestem Pool Plot 5.20.11.pdf...
					
Jamestown Pool Plot 5.20.11.pdf...					

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 4:07 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

No commitment to external review to my knowledge. I will put together a "final draft" based on these inputs and vet through Erik. Thanks much ... you actually had done most of the work Jody, I just tried to put it into a different format for use by others!

Will send you both the "final answers".

By the way, Jody, I see these as being the answers for the "typical" public query/media outlet. Clearly some folks, like the interview you'll do tomorrow, will need far more technical/sophisticated answers.

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 4:02 PM
To: [REDACTED] NWD; [REDACTED] NWD02; Blechinger, Erik T NWO
Subject: FW: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My edits in the attached. Have we committed to an external review? This is the first I've heard of it.

Thanks for pulling these together, [REDACTED].

Jody

-----Original Message-----

From: Hargrave, Rosemary C NWD02
Sent: Monday, June 06, 2011 2:58 PM
To: [REDACTED] NWD; Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Attached are my changes as tracked for consideration. Thank you for the opportunity to comment.

Somehow, I think we need to start carefully formulating a message that makes it clear that mother nature holds the upper hand here and the Corps manages the hand we are dealt. Just a thought.

[REDACTED]
-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 2:25 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: Blechinger, Erik T NWO
Subject: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Jody,

Thanks to your help and the gracious assistance of Rose, I've crafted these from your previous talking points and refined them a bit based on recurring questions I'm hearing. Please review for technical accuracy and let me know what you think.

Once finalized, I was planning to distribute to Erik for dissemination to senior leaders for their use, the phone center, and PA for incorporation in media preps, etc.

I plan to do this on a variety of topics ... so more to come.

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: O'Hara, Thomas A NWO
Sent: Monday, June 06, 2011 4:07 PM
To: DLL-CENWD Zorlinsky-Floor 3
Cc: DLL-NWK-MRJIC
Subject: MRJIC personnel bn 3rd floor

ALCON for 3rd Floor Zorinsky Residents

Throughout the duration of this expected summer flooding event, there will continue to be staffers from throughout the Corps working in the MR Joint Information Center. They will be usually wearing their white or red emergency response shirts, however, as this is a prolonged event, they will also wear personal clothing.

They are all volunteers from local, regional and nationwide USACE districts and divisions here on rotating assignments.

The MRJIC is currently located in the NWD Conference room and adjacent open space south. Erik Blechinger is the MRJIC Lead.

Please continue to assist in supporting their efforts and making them feel welcome as we continue to fight this basin-wide battle as one Corps team.

v/r

T3

(Currently working Missouri Floodflight efforts. I will reply to your email as I can)

BUILDING STRONG®
Thomas A. O'Hara III
Executive Officer
Omaha District, U.S. Army Corps of Engineers
1616 Capitol Avenue, Suite 9000
(Attn: CENWO-EX-XA)
Omaha, NE 68102-4901
402-995-2004
thomas.a.ohara@usace.army.mil

NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 4:04 PM
To: 'Christopher Vaccaro'
Cc: [REDACTED] NWD02; Farhat, Jody S NWD02
Subject: FW: Corps to hold call-in news conference to discuss Missouri River reservoir releases and levees (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Chris:

Our conference call information is below so that you can refer media and stakeholders to take part in our call. You are invited to listen in/participate as well.

V r,

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District
(402) 995-2588
(402) 779-1460

-----Original Message-----

From: U.S. Army Corps of Engineers, Omaha District [<mailto:sarah.d.gross@usace.army.mil>]
Sent: Monday, June 06, 2011 3:44 PM
To: Farmer, Monique L NWO
Subject: Corps to hold call-in news conference to discuss Missouri River reservoir releases and levees

<<http://us.vocuspr.com/Publish/520028/vcsPRAsset 520028 348656 c5220867-6ce9-45c0-83c24dfd9e54e58a1 0 USACE LOGO small.jpg>>

BUILDING STRONG®

NEWS RELEASE

For Immediate Release: June 6, 2011

Contact: Monique Farmer (402) 996-3877

monique.l.farmer@usace.army.mil

Omaha, Neb. – The U.S. Army Corps of Engineers will conduct a daily call-in news conference 6 p.m. CT each evening. Today's call will focus on information regarding current and future water releases on the Missouri River and updates on the status of the levees. The Corps will share the latest information and answer questions.

This news conference is for exclusively for the following invitees: congressional representatives, state representatives, Tribal members and accredited news media. Please call in at the number below for today's call-in news conference.

When: TODAY-Monday, June 6, at 6 p.m. CT

Who: U.S. Army Corps of Engineers

How: Call toll free: 1-877-336-1828

ACCESS CODE: 1054750

SECURITY CODE: 1234

The call-in number will be available five minutes prior to the start of the conference call. The press conference will be recorded in its entirety and made available to media outlets for news broadcasts at: <http://www.nwo.usace.army.mil/html/op-e/flood2011/pressresources.html> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016798x1426398>> . By participating in the call, you acknowledge your consent to be recorded.

For general questions regarding our flood response information efforts, please call (402) 996-3877 or email us at MRJIC@usace.army.mil.

Please follow us on Facebook (www.facebook.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016797x906683>>) and Twitter (www.twitter.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016796x386968>>) for the latest updates regarding our flood response operations.

You can also find flood inundation maps and local emergency management contact information on our social media sites as well as our district Web site at <http://www.nwo.usace.army.mil> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016795x1404076>> .

View daily and forecasted reservoir and river information on the Water Management section of the Northwestern Division homepage at: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016794x884360>> .

###

U.S. ARMY CORPS OF ENGINEERS - OMAHA DISTRICT
1616 Capitol Ave., Ste. 9000
<http://www.nwo.usace.army.mil/> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016793x364644>>

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<<http://us.vocuspr.com/Url.aspx?520028x333145x761158>> Like us on Facebook
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<<http://USACEARMY.pr-optout.com/Url.aspx?520028x1016789x1359414>>

<<http://us.vocuspr.com/Url.aspx?520028x1016799x409286>>

If you would rather not receive future communications from U.S. Army Corps of Engineers, Omaha District, let us know by clicking here. <<http://USACEARMY.pr-optout.com/OptOut.aspx?520028x24691x317238x3x1875269x24000x6&Email=Monique.L.Farmer%40usace.army.mil>>

U.S. Army Corps of Engineers, Omaha District, 1616 Capitol Ave., Ste. 9000, Omaha, NE 68102
United States

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 4:00 PM
To: Blechinger, Erik T NWO; Farhat, Jody S NWD02
Subject: RE: Operation... (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Operation Mighty Mo started on 20 May 2011.

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
[REDACTED] Office
[REDACTED] Blackberry
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 12:53 PM
To: Farhat, Jody S NWD02; Thomas, Kimberly S NWO
Subject: Fw: Operation... (UNCLASSIFIED)

Kim/Jody;

If you had to pick a date of when we started this event, what date would you use?

Erik

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: McMahon, John R BG NWD
To: [REDACTED] NWD; Blechinger, Erik T NWO
Sent: Mon Jun 06 10:45:40 2011
Subject: Re: Operation... (UNCLASSIFIED)

I was thinking Operation Heartland Response OR Operation Mighty Mo. The first has more resonance with me (and Lori agrees). Gotta decide and use it today. Thoughts?
What's the D-date? Thanks.

Vr/John

----- Original Message -----

From: [REDACTED] NWD
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Sent: Mon Jun 06 10:09:49 2011
Subject: RE: Operation... (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I like that.

-----Original Message-----

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 10:07 AM
To: [REDACTED] NWD; McMahon, John R BG NWD
Subject: RE: Operation... (UNCLASSIFIED)

Ruch liked Mighty Mo. Did not canvas the KC folks.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 12:04 PM
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Subject: RE: Operation... (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hmm, none really strike a chord with me.

How about: "Operation Big Muddy"; or "Operation Big Muddy 2011"?

-----Original Message-----

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 7:38 AM
To: McMahon, John R BG NWD; [REDACTED] NWD
Cc: Blechinger, Erik T NWO
Subject: FW: Operation...

I am not the most creative guy, so I had the team brainstorm and here is what they came up with. Let me know if any are even in the ball park.

Operation:

River storm,
Rolling river,
Heartland floods,
Heartland hurricane,
Heartland heartbreak,
Raging river,
Snowflake,
Basin wide,
Summer surge,
Water war,
Water course,
MR basin battle,
Battle for our basin,
Muddy fight
Operation Mighty Monster
Operation nature tamed
Inundation Recovery
Rolling Thunder
Delta Thunder
Epic Thunder
Human spirit

Mighty Monster

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 3:59 PM
To: Farhat, Jody S NWD02
Subject: RE: Interview Request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Yes, I will be there. Need any help with crafting answers all looks like things you've heard before?

[REDACTED]
-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 10:53 AM
To: Farmer, Monique L NWO
Cc: [REDACTED] NWD
Subject: FW: Interview Request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Monique and [REDACTED]

FYI, Bill Mitzel, editor/publisher of Dakota Country magazine out of Bismarck, ND, has requested an interview with me. He offered to send the questions in advance, see below. No show stoppers. Tomorrow morning looks good on my calendar, would you be available?

Jody

-----Original Message-----

From: bill mitzel [<mailto:dcmag@orbitcom.biz>]
Sent: Monday, June 06, 2011 10:41 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... here's a list of 20 questions for your advance review. I might have a few more in-between, as we visit on the phone. Please review these and let me know what time we can do this during the coming week here. I anticipate about an hour, give or take. Thanks very much for your time.

Bill Mitzel
Dakota County Magazine

Questions for interview with Corps of Engineers...

1. How did this all happen so quickly?
2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?
3. Snowpack wasn't a problem until early June and by then releases were over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?
4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?

5. Weren't these dams built to prevent this type of flooding?
6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year. The 2010 runoff forecast then was at 115%. The ground was saturated with water. Did you sense a return of a wet cycle then? Was there a red flag at that time?
7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)
8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?
9. There are three factors that people seem to be upset with: 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff? 2) Did the Corps misjudge the amount on snowpack in the mountains last winter? 3) Management of the system in conjunction with the piping plover and least tern?
10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?
11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?
12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?
13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?
14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?
15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?
16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?
17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?
18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?
19. What's the Corps' overall reaction to all of this? Would you have done anything differently knowing what you know now?
20. Will the Corps do anything differently when this is over as far as management operations?

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 3:48 PM
To: Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: Draft TPs for 2011 release (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Jody,

Most of this I think I pulled from your talking points ... as well as crafting a few based on answers I heard during interview today. Once you give input/bless ... I'll get it out for distro.

I am working on analogies for the "common man" as we discussed for volumes of water. Just wanted to get something out by this afternoon.

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR **[REDACTED]** (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 3:02 PM
To: [REDACTED]; NWD02; Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Good point Rose ... I agree. One set of future TPs are going to hit on that & the concept of controlled vs uncontrolled flooding.

-----Original Message-----

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 2:58 PM
To: [REDACTED] NWD; Farhat, Jody S NWD02
Cc: Blechinger, Erik T NWO
Subject: RE: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Attached are my changes as tracked for consideration. Thank you for the opportunity to comment.

Somehow, I think we need to start carefully formulating a message that makes it clear that mother nature holds the upper hand here and the Corps manages the hand we are dealt. Just a thought.

[REDACTED]

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 2:25 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: Blechinger, Erik T NWO
Subject: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Thanks to your help and the gracious assistance of Rose, I've crafted these from your previous talking points and refined them a bit based on recurring questions I'm hearing. Please review for technical accuracy and let me know what you think.

Once finalized, I was planning to distribute to Erik for dissemination to senior leaders for their use, the phone center, and PA for incorporation in media preps, etc.

I plan to do this on a variety of topics ... so more to come.

[REDACTED]

[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 2:26 PM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR; Farhat, Jody S NWD02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] W HQ02; [REDACTED] LRH; [REDACTED] LRH; [REDACTED] MVM
Cc: [REDACTED] S NWO; [REDACTED] NWD02; Farhat, Jody S NWD02; [REDACTED] R NWD02; [REDACTED] NWD02; [REDACTED] NWD-OMAHA; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] RMC; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] E MVD; DLL-CELRD-RBW; [REDACTED] HQ02; [REDACTED] T HQ
Subject: Missouri River Basin Water Management Division Situation Report of 6-6-11 (UNCLASSIFIED)
Attachments: Missouri River Basin Water Management Situation Report 6-6-11.docx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] / Eileen,

Today's NWD Water Management situation report is attached.

[REDACTED]
Missouri Basin Water Management Division
Northwestern Division
Corps of Engineers
[REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Basin Water Management Situation Report – 6-6-11

Reservoir Conditions

The upper three reservoirs of the Missouri River Mainstem Reservoir System provide the bulk of the storage of water. All three are in their exclusive flood control zones, with Fort Peck passing its spillway crest (continuing up on raised spillway gates) and the other two being near their spillway crests. Table 1 summarizes the situation as of 0000 hours this morning. More details on the reservoirs can be found on the daily bulletin prepared by the Missouri River Basin Water Management Division at:

<http://www.nwd-mr.usace.army.mil/rcc/reports/showrep.cgi?4BULL0MR1>.

Table 1. Key Reservoir Data (through 0000 hrs 6/6/11)

Reservoir	Inflow kcfs	Outflow kcfs	Top of Spillway Gates feet msl	Current Level feet msl	24-hr Change feet
Fort Peck	52.0	36.9	2250	2250.4	0.1
Garrison	100.0	115.3	1854	1853.5	-0.1
Oahe	133.0	126.8	1620	1619.2	0.0
Big Bend	116.0	114.2	1423	1419.3	-0.1
Fort Randall	120.0	112.4	1375	1360.5	0.1
Gavins Point	104.0	101.9	1210	1206.3	0.2

Based on the current level data on the upper three reservoirs, the amount of remaining storage has diminished or is diminishing. One way to characterize this factor is to compute the percent of the exclusive flood control zone that is remaining to store water before water passes uncontrolled over the spillway gates. The lower three reservoirs have much less capability to store the inflows that are coming into the Missouri River Mainstem Reservoir System, with Fort Randall Reservoir having the greater amount. As of today, the stored water has not yet entered the exclusive flood control zones of the three smaller reservoirs; therefore, 100 percent of their exclusive flood control storage remains available. Table 2 summarizes the storage volumes of all six System reservoirs, with the last column listing the amount of exclusive flood control storage that remains as of today. Spillways are now being used at five of the six reservoirs, with no plans to use Oahe spillway at this time. Because the spillway gates are open at Fort Peck and Garrison, the percent of exclusive has become negative at Fort Peck and may become negative over the next day or two at Garrison, as water follows under the raised gates. A positive number must always appear for Oahe as long as the spillway gates remain closed at that project.

Table 2. Reservoir Storage Data (through 0000 hrs 6/6/11)

Reservoir	Current	Total	Remaining	Exclusive	% Excl Left
	kAF	kAF	kAF	kAF	
Fort Peck	18,571	18,463	-108	971	-11
Garrison	23,683	23,821	138	1,489	9
Oahe	22,801	23,137	336	1,102	30
Big Bend	1,583	1,798	215	60	100
Fort Randall	4,012	5,418	1,406	985	100
Gavins Point	351	450	99	57	100

Releases from all six reservoirs are currently exceeding records prior to 2011. Table 3 provides release data for all six reservoirs to provide some perspective on the changes that will be happening over the next 2 weeks. A full listing of the data through mid-July is available at: <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>.

Table 3. Reservoir Release Comparisons (through 0000 hours 6/6/11)

Reservoir	Yesterday	Forecast	7 days out	14 days out	Pre-2011
	kcfs	Today	13 June	20 June	Record
	kcfs	kcfs	kcfs	kcfs	kcfs
Fort Peck	36.9	45.0	50	50	35
Garrison	115.3	120.0	140	150	65
Oahe	126.8	140.0	150	150	59
Big Bend	114.2	140.0	150	150	74
Fort Randall	112.4	127.0	145	148	67
Gavins Point	101.9	120.0	145	150	70

River Conditions

Levees have been or are currently being constructed by the Corps in six cities from Bismarck/Mandan, ND to South Sioux City, NE, resulting primarily from the releases from Garrison, Oahe, and Gavins Point Dams. Many communities along the lower Missouri River are currently experiencing Missouri River flows that are above flood stage by several feet. The flood stages currently being experienced will be exceeded as Missouri River Mainstem Reservoir System releases increase over the next few weeks to pass the anticipated inflows from mountain snowpack runoff and heavy rains in the Missouri River basin. Table 4 summarizes the current conditions as of 0600 hours this morning and the Corps' current forecast for crest stages.

Table 4. Missouri River Stage Data for 6/6/11 at 0600 CDT

Location	Flood Stage	Current Stage	Forecast Crest Stage	Date of Crest Stage
Bismarck, ND	16	17.2	20-21	mid-Jun
Pierre, SD	13	18.1	18.7	mid-Jun
Sioux City, IA	30	30.2	35-37	mid-Jun thru July
Decatur, NE	35	34.7	40-42	mid-Jun thru July
Omaha, NE	29	29.9	34-36	mid-Jun thru July
Nebraska City, NE	18	23.2	27-28+	mid-Jun thru July
St. Joseph, MO	17	21.9	27-32	mid-Jun thru July
Kansas City, MO	32	27.0	30-39	mid-Jun thru July
Waverly, MO	20	25.6	27-31	mid-Jun thru July
Boonville, MO	21	23.7	27-33	mid-Jun thru July
Hermann, MO	21	24.0	27-33	mid-Jun thru July

Information on Current Mountain Snowpack and Forecasted Rainfall

Releases from the System reservoirs are based on snowpack and rainfall forecasts in the Missouri River basin. An updated snowfall forecast has not yet been prepared today; however, the Hydrologic Prediction Center (HPC) of NOAA prepares a rainfall forecast daily for up to the next 5 days, with an accumulated figure also presented on its website. Figure 1 is the accumulated 5-day rainfall forecast released today by HPC, and Figure 2 is yesterday's mountain snowpack update compiled by the Corps.

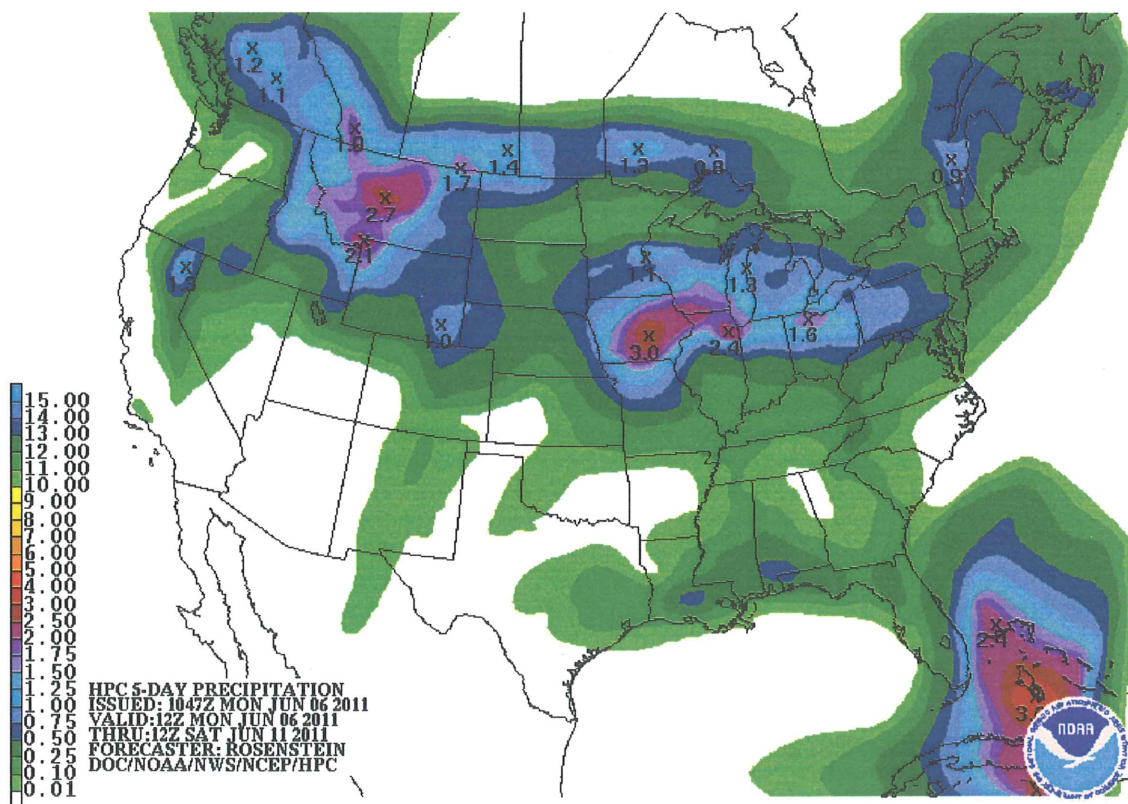


Figure 1. 5-day total QPF ending 0700 Saturday, June 11, 2011.

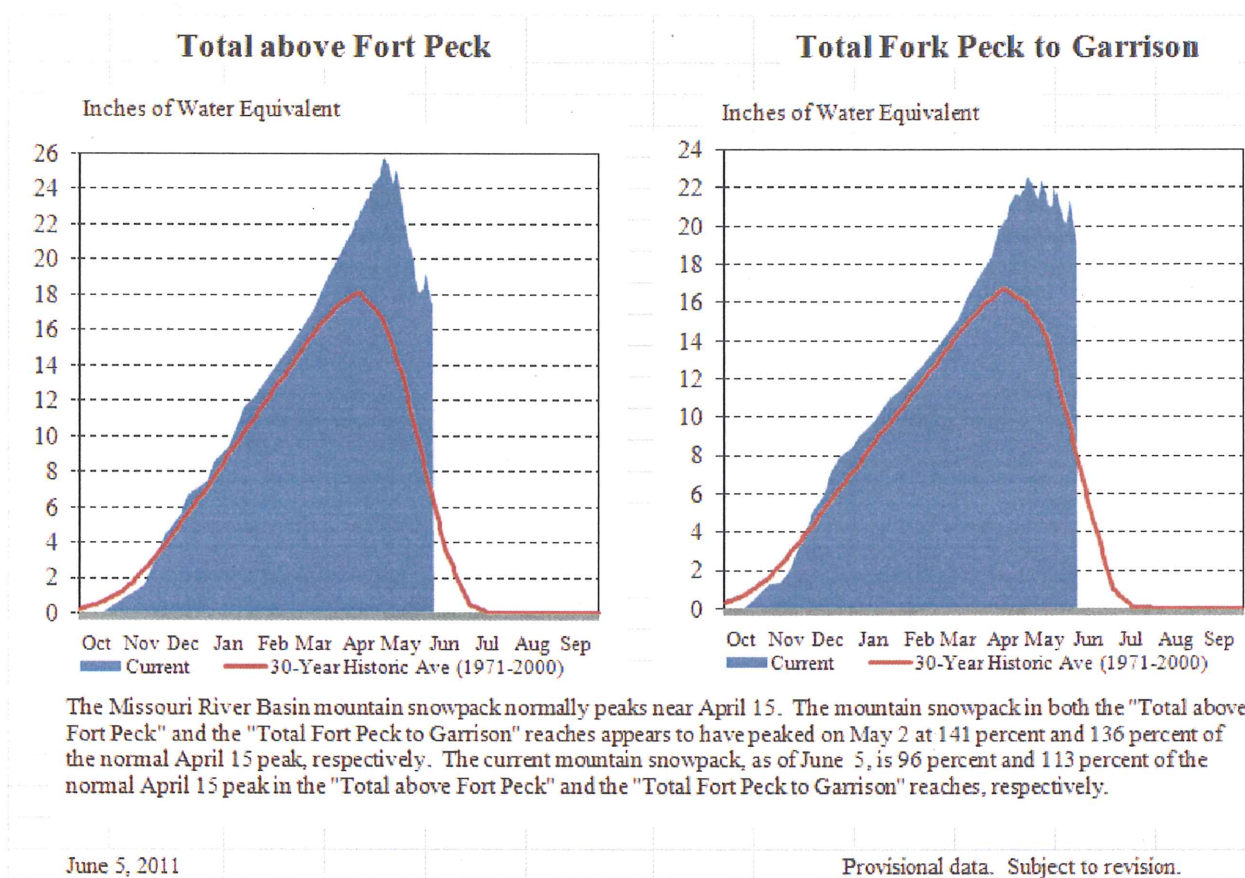


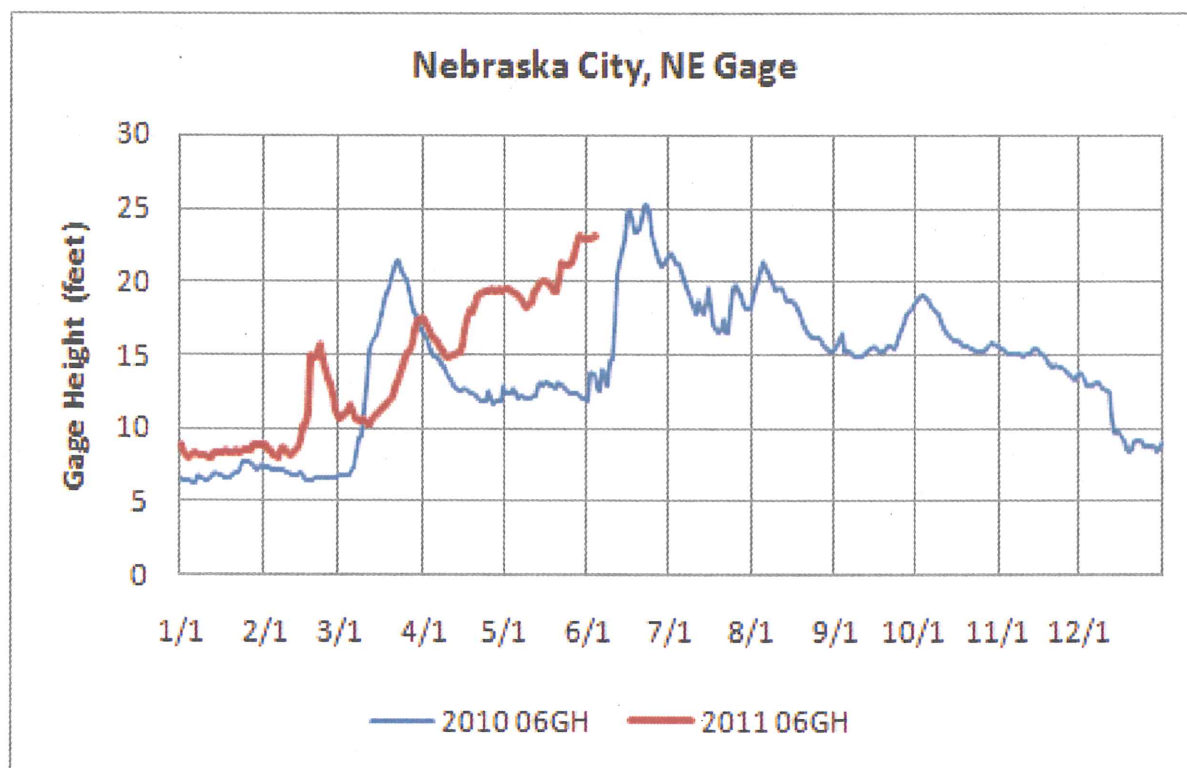
Figure 2. Missouri River basin mountain snowpack water content summary, 2010-2011 – June 5, 2011.

Actions Underway to Prepare for the Releases

Actions continue to prepare for the already high flows on the Missouri River and those that will result from the increased releases from the Missouri River Mainstem System reservoirs. The Omaha District continues to work with the cities of Bismarck (levee completed)/Mandan, ND, Pierre/Ft. Pierre, SD, Dakota Dunes, SD, and South Sioux City, NE to construct levees to limit flood impacts to those cities. Floodplain evacuations have been ongoing for many lower-lying areas along the lower Missouri River.

Floodplain inundation maps have been posted by the Omaha District to identify the areas of potential flooding for the emergency managers and the public. The Kansas City District's floodplain inundation maps are now available on its Flood Response Information website. Overtopping of levees information is also available from both districts.

The first levee failure on the lower Missouri River occurred this morning as some minor repairs were being made nearby to levee unit L-575 just south of the Iowa/Missouri state line. As a precautionary measure should the temporary fix of the slump in the levee not be effective, the lower portion of the town of Hamburg, Iowa is being evacuated. Figure 3 is a plot showing the nearest gage 0600 stages for 2010 and 2011, both years with high river stages at Nebraska City. This figure shows that the river is nearing the maximum stages experienced last year.



[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 2:25 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: Blechinger, Erik T NWO
Subject: Master Manual/Reservoir Ops Talking Points (UNCLASSIFIED)
Attachments: Master Manual TPs.docx

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Thanks to your help and the gracious assistance of Rose, I've crafted these from your previous talking points and refined them a bit based on recurring questions I'm hearing. Please review for technical accuracy and let me know what you think.

Once finalized, I was planning to distribute to Erik for dissemination to senior leaders for their use, the phone center, and PA for incorporation in media preps, etc.

I plan to do this on a variety of topics ... so more to come.

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Master Manual and General Reservoir Ops TPs:

The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual – a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs based on over 100 years of historical records (1898-2004) for the benefit of the entire Missouri River basin.

The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the system should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to manage the Missouri River.

The reservoir system is designed to capture spring and summer runoff to provide flood control, and then allows the Corps to manage releases throughout the year to accommodate the other 7 authorized purposes: navigation, irrigation, water supply, hydropower, fish and wildlife, recreation, and water quality.

Each year an annual operating plan is developed to make necessary adjustments to our reservoir operations based on current and projected conditions, such as: amount of water received the previous year, rainfall events, Plains snow pack, and mountain snow pack.

The annual operating plan is reviewed and adjusted monthly based on actual conditions.

Answers to frequently asked Master Manual Questions:

Were releases held back earlier in the season to protect nesting least terns and piping plovers?

Answer: No operational decisions this year were driven by the Endangered Species Act – we have been operating for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not have to implement in 2011 because flows were already above normal and what that Pulse would provide.

Will this change the way the reservoir system is operated in future years?

Answer: The reservoir system has been operated in accordance with the Master Manual. 2011 will be a new data point in the history of the Missouri River Basin, both in terms of hydrology and flood plain impacts, so this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 2:13 PM
To: [REDACTED] NWD; [REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: WM Update - 6-6-11 (UNCLASSIFIED)
Attachments: NWD Missouri Basin Update - 060611.pptx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Today's Update is attached.

[REDACTED]
Missouri River Basin Water Management Division Northwestern Division Corps of Engineers
[REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Basin Stages

6 June 2011



	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages	Projected Date **	Record Stage (Year)
A	Bismarck	16	17.2	150 kcfs 20.6	June 19	
B	Pierre	15	18.1	150 kcfs 18.7	June 7	
C	Yankton	20	22.0	150 kcfs n/a	June 14	
D	Sioux City	30	30.2	170 kcfs 35	June 15	44.28 (1952)
E	Decatur	35	34.7	175 kcfs 40	June 15	43.5 (1943)
F	Blair	26.5	28.5	175 kcfs 30	June 15	33.5 (1952)
G	Omaha	29	29.9	175 kcfs 34	June 16	40.2 (1952)
H	Nebraska City	18	23.2	200 kcfs 27	June 16	27.19 (1993)
I	Brownville	33	39.3	205 kcfs 43	June 16	44.3 (1993)
J	Rulo	17	23.1	210 kcfs 25.5	June 17	26.63 (2010)
K	St. Joseph	17	21.9	215 kcfs 27	June 17	32.07 (1993)
L	Atchison	22	24.9	215 kcfs 30	June 17	31.63 (1993)
M	Leavenworth	20	20.6	215 kcfs 27	June 17	35.34 (1993)

Missouri River Basin Stages

6 June 2011



US Army Corps of Engineers
BUILDING STRONG®

	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages	Projected Date **	Record Stage (Year)
N	Kansas City	32	27.0	220 kcfs 30 350 kcfs 39	June 18	48.87 (1993)
O	Sibley	22	26.1	220 kcfs 28 350 kcfs 33	June 18	40.6 (1952)
P	Napoleon	17	22.6	220 kcfs 25 350 kcfs 29	June 18	28.86 (2007)
Q	Waverly	20	25.6	230 kcfs 27 370 kcfs 31	June 18	31.15 (1993)
R	Miami	18	23.8	235 kcfs 26 370 kcfs 30	June 19	32.6 (1993)
S	Glasgow	25	26.7	250 kcfs 32 410 kcfs 37	June 19	39.5 (1993)
T	Boonville	21	23.7	260 kcfs 27 420 kcfs 33	June 19	37.1 (1993)
U	Jefferson City	23	23.1	260 kcfs 27 430 kcfs 35	June 19	38.3 (1993)
V	Chamais	17	19.9	290 kcfs 24 450 kcfs 29	June 19	33.3 (1993)
W	Gasconade	22	26.4	300 kcfs 30 470 kcfs 35	June 19	39.6 (1993)
X	Hermann	21	24.0	300 kcfs 27 470 kcfs 33	June 20	36.97 (1993)
Y	Washington	20	20.3	300 kcfs 23 470 kcfs 32	June 20	35.4 (1993)
Z	St. Charles	25	26.1	300 kcfs 28 470 kcfs 37	June 20	40.04 (1993)

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 1:53 PM
To: Farhat, Jody S NWD02
Subject: #s COL Ruch was quoting (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Do you have those numbers COL Ruch was quoting/reading from during today's radio interview? (He had a sheet in front of him ... might have been from one of his previous Stakeholder's calls?)

Want to send to Jim to get him to help me convert to something people might get their head around.

Thanks! [REDACTED]

[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 1:52 PM
To: Farhat, Jody S NWD02
Subject: RE: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Per Ed:

It will take about three months to get the lake down for the work. The work itself will probably take about a month.

[REDACTED]
[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]
402.996.3898 (fax)

-----Original Message-----

From: Walker, Matthew M NWK
Sent: Monday, June 06, 2011 12:41 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

We have received the following information and attached photographs from the Bureau of Reclamation. There are significant safety concerns at Glen Elder Dam (Waconda Lake). We request a deviation to release 1,500 cfs through Glen Elder dam to minimize the chance of spillway release and help provide suitable conditions for repair of the structure. The deviation is requested until the construction is completed.

We understand that there are concerns with the Missouri River flow. However, the 1,500 cfs is one percent of the expected mainstem project release and would reduce the chance of a catastrophic situation in the Solomon basin.

Thank you for your consideration of this Glen Elder Dam (Waconda Lake) operation deviation.

[REDACTED]
[REDACTED]
(Acting) Chief, Hydrologic Engineering Branch
[REDACTED]

-----Original Message-----

From: Peck, William E [mailto:WPeck@usbr.gov]

Sent: Friday, June 03, 2011 4:09 PM

To: [REDACTED] NWK

Cc: Parker, Edward E NWK

Subject: Ongoing Construction Projects at Glen Elder Dam

Hello [REDACTED]

Have attached a couple of photos for each of the two construction projects taking place at Glen Eder Dam (Waconda Lake). The first photo of the spillway approach apron (immediately upstream of the spillway gates) gives you an idea of the scope of the repairs that were taking place. This photo was taken early last November. The second photo of the spillway construction project was taken when the lake level exceeded 1456.20 feet on May 25th. The contractor had removed all of his equipment from the small dike upstream of the apron after earlier notification that the lake level would be increasing several more feet. The contractor had constructed the dike to assist in the repairs to the spillway apron. As you can see from this photo there are at least three large concrete slabs that had not been completed at the time of the flooding. Would need to check with a structural engineer, but thinking it would not be a good thing to run water through the spillway with a partially completed approach apron. I do know that there are some sort of anchors located within the apron that tie into the spillway structure to help prevent any movement (once again would need structural engineers evaluation). This is a 2.5 million dollar contract and is a ARRA project. It is my understanding that funding through ARRA is to run out at the end of September of this year. Not sure if this funding can be carried over, but if not, we will need to find another source to finish the construction.

The second two photo's are of the soil cement damage on the upstream face of the dam. There were numerous areas in need of repair with a few critical areas having as many as three lifts of soil cement missing or damaged. These repairs are made periodically to ensure that wave action does not find a path beneath the slabs and erode the underlining base material (embankment). Repairs are required when over 50 % of the soil cement coverage has been lost. The last repairs made to the soil cement face were completed in 1987. Prior to the flooding, I was informed that the repairs below elevation 1455.6 feet had been completed (contractor required to work on these areas first). There were several other areas above this level that were submerged before they could be repaired. I believe the initial construction cost was around \$500,000.

Both contractors were forced to de-mobilize because of the high reservoir level (both areas of repair are now several feet under the water). The contractors are to return to the job as soon as the water level approaches the top of conservation level. The cost of the projects will undoubtedly increase substantially as a result of the work stoppage (mostly due to the de-mobilization and re-mobilization according to COR on the job).

Just one other note, we will be required to make smaller releases to the river for the Glen Elder Irrigation District this summer (up to 200 cfs). In the big picture of things It seems that releasing 1,500 cfs would not be all that significant. I do understand however that there is the perception that we would be releasing from Glen Elder Dam when other structures would be forced to store water.

Hope this helps,

Let me know if you require more information or have additional questions.

Bill Peck

Chief, Water Operations

McCook Field Office

U.S. Bureau of Reclamation

1706 West 3rd Street

McCook, NE 69001

(308)-345-1029

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED]
Sent: Monday, June 06, 2011 1:42 PM
To: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
Cc: Farhat, Jody S NWD02
Subject: Fwd: Questions about flows etc (UNCLASSIFIED)

Greetings, The following includes my original questions and Jody's answers. ---1--- The flood control catchment system was originally designed for a 5 month period in 1881 for 40 MAF of runoff up stream from Gavin's Point. 44 MAF is the expected runoff for this year. This means that the expected rainfall and snow melt inflow to the flood control system will be exceeded by 10 percent. This largely explains the historic flows that make up the extra runoff combined with the usual amount that needs to be released in a normal year. ---2--- The link she provided I find quite useful for study of expected river stages with the 150,000 cfs due to be released from Gavins Point. Note the caveats at the end of the chart. The flow rates per foot of water depth vary widely due to the configuration of the channel and over bank flooded areas. Regards, JBG, PE

Joe,
The design storm for sizing the flood control storage of the mainstem system was the 1881 flood which included 40 MAF of runoff over a 5 month period March through July. There isn't a specific return interval associated with it to my knowledge. Our Jun 1 runoff forecast for 2011 is for 44 MAF of runoff from March through July, 4 MAF more than the design storm.

As for the stage increases for 10 kcfs of additional flow, I've included the link to our website for our best estimates of potential stages when the full 150 kcfs release reaches various locations. We provide a range of stages with associated flows, so I think that should help answer your question.

The link is:

<http://www.nwo.usace.army.mil/html/op-e/flood2011/citizenresources.html>

Then select "Below Gavins Point - Range of Flows and Stages"

Regards,
Jody

-----Original Message-----

From: [REDACTED]
Sent: Monday, June 06, 2011 9:04 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED]
Subject: Questions about flows etc

Jody, On several occasions, questions from flood plain interests are:
---1--- What is the combined design storm water runoff storage recurrence interval for the annual flood control and exclusive pools in the main stem reservoir system as a whole; and, for each individual dam reservoir system

designed for storage of flood control waters? ---2--- For flood flows still within the river banks and the levees, what is the approximate depth of water for each 10,000 cfs of discharge at Sioux City, Omaha, St. Joseph, Kansas City and Hermann? Thank you. JBG, PE

Joseph B. Gibbs, PE, [REDACTED] Ph [REDACTED] ---
FAX [REDACTED] -----E-Mail: [REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Joseph B. Gibbs, PE, [REDACTED], [REDACTED], [REDACTED] ---
FAX [REDACTED] -----E-Mail: [REDACTED]

From: Jody.S.Farhat@usace.army.mil
To: [REDACTED]
Sent: 6/6/2011 10:36:55 A.M. Central Daylight Time
Subj: RE: Questions about flows etc (UNCLASSIFIED)

<http://www.nwo.usace.army.mil/html/op-e/flood2011/citizenresources.html>

NWO

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 1:40 PM
To: Gaarder, Nancy
Cc: Farhat, Jody S NWD02
Subject: RE: Photo of levee breach in Hamburg (UNCLASSIFIED)
Attachments: Hamburg_EM_structure.pdf

Here you go Nancy. Red line is the ditch 6 levee we are raising. Yellow is the L-575 tie back levee. The levee that experienced the partial breaches are to the West approximately 4 miles. Hope this answers the mail.

Erik

-----Original Message-----

From: Gaarder, Nancy [<mailto:Nancy.Gaarder@owh.com>]
Sent: Monday, June 06, 2011 10:58 AM
To: Blechinger, Erik T NWO
Subject: RE: Photo of levee breach in Hamburg (UNCLASSIFIED)

Thank you.

Omaha World-Herald
www.omaha.com

Nancy Gaarder
Reporter
Office: 402-444-1102
Fax: 402-444-1231
Email: Nancy.Gaarder@owh.com
1314 Douglas St.- Suite 700
Omaha, NE 68102

-----Original Message-----

From: Blechinger, Erik T NWO [<mailto:Erik.T.Blechinger@usace.army.mil>]
Sent: Monday, June 06, 2011 10:56 AM
To: Farmer, Monique L NWO; Gaarder, Nancy
Subject: FW: Photo of levee breach in Hamburg (UNCLASSIFIED)

Nancy;

Here is the photo I discussed. Also went out with our press release last night. Working on the ditch 6 levee.

Erik Blechinger

Chief, Missouri River Joint Information Center

-----Original Message-----

From: Farmer, Monique L NWO

Sent: Monday, June 06, 2011 10:28 AM

To: Blechinger, Erik T NWO

Subject: Photo of levee breach in Hamburg (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Erik:

Attached is the photo of the levee breach for Nancy. Please copy me on the email you send her with the additional photo and information on Ditch 6.

Monique Farmer

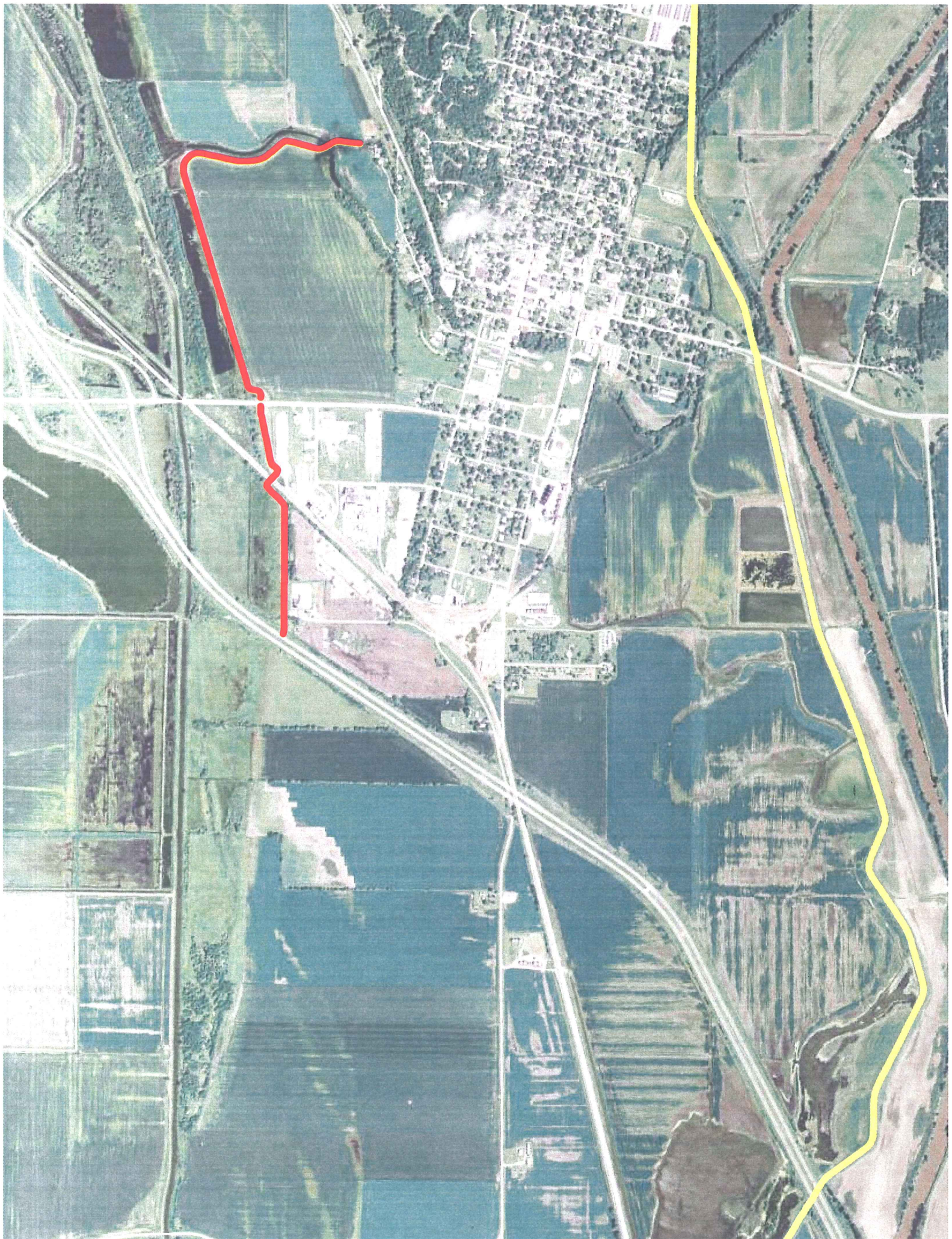
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of
Engineers Omaha District

(402) 995-2588

(402) 779-1460

Classification: UNCLASSIFIED

Caveats: NONE



NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 1:04 PM
To: Farhat, Jody S NWD02
Subject: FW: Re; Wednesday morning Radio Program (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

Can you do this one?

-----Original Message-----

From: Bill Peterson [<mailto:billp@regionalradio.com>]
Sent: Monday, June 06, 2011 1:01 PM
To: Farmer, Monique L NWO; Brad Boyer
Subject: Re; Wednesday morning Radio Program

Hi, Monique. Do we know, yet, who the person from the Missouri River Joint Information Center will join us on the KWIX 8:30am Wednesday Radio Call-In Program? We'd love to have Jody Farhat, but any of your people would be great.

Please contact the person doing the program, Brad Boyer, with the information.

Again, the phone number at 8:25am Wednesday morning is 800-209-7837.

Thanks for your help. Bill Peterson KWIX/KRES/KIRK
Radio Moberly

(Brad; the phone number for the MRJIC is 402-996-3877)

Classification: UNCLASSIFIED
Caveats: NONE

From: bill mitzel [dcmag@orbitcom.biz]
Sent: Monday, June 06, 2011 12:57 PM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... that will be fine.... please give me a phone number to call.
Thanks.
Bill

On Jun 6, 2011, at 12:55 PM, Farhat, Jody S NWD02 wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Bill - Does 11:00 CT tomorrow work for you?
>
> -----Original Message-----
> From: bill mitzel [mailto:dcmag@orbitcom.biz]
> Sent: Monday, June 06, 2011 10:41 AM
> To: Farhat, Jody S NWD02
> Subject: Re: Interview Request (UNCLASSIFIED)
>
> Jody... here's a list of 20 questions for your advance review. I might
> have a few more in-between, as we visit on the phone. Please review
> these and let me know what time we can do this during the coming week
> here. I anticipate about an hour, give or take. Thanks very much for
> your time.
> Bill Mitzel
> Dakota County Magazine
>
> Questions for interview with Corps of Engineers...
>
> 1. How did this all happen so quickly?
> 2. (In anticipation of answer No. 1) But we've huge rain and snow
> events before (1997). Why was this so bad?
> 3. Snowpack wasn't a problem until early June and by then releases
> were was over 100,000 cfs on Sakakawea and Oahe. It's hard to accept
> those releases from just rain events in Montana?
> 4. A press release on June 4 of this year from Ft. Peck proclaimed
> "historic snow levels" in the mountains. Yet the snowpack was 108% of
> normal on 2/28 and 116% on 3/31. What's "historic" about that?
> 5. Weren't these dams built to prevent this type of flooding?
> 6. We checked the found that the trouble seemed to begin in the spring
> of 2010, yet the snowpack was at 76% of normal in March of that year.
> The 2010
> runoff forecast then was at 115%. The ground was saturated with water.
> Did you sense a return of a wet cycle then? Was there a red flag at
> that time?
> 7. Were you comfortable with upper reservoir levels last fall going
> into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7
> and Oahe was at 1605.3.) 8. Is there an ideal pool level that you'd
> prefer each of these three reservoirs be at on Jan. 1 each year?
> 9. There are three factors that people seem to be upset with: 1) Why

> wasn't more water released last fall, winter and earlier this spring
> from the upper reservoirs to collect spring runoff? 2) Did the Corps
> misjudge the amount on snowpack in the mountains last winter? 3)
> Management of the system in conjunction with the piping plover and
> least tern?
> 10. Even last 2/28/11, the Corps said mountain snowpack was only 108%
> of normal, then raised to only 116% on 3/31/11. What happened after
> that?
> 11. In early May of this year, daily releases from Garrison Dam were
> only averaging 14,900 cfs. Yet by then the Corps knew or should have
> known of the alleged excessive mountain snowpack. Why weren't releases
> vamped up earlier last spring in anticipation of excessive mountain
> snowpack?
> 12. The Corps is charged with managing 6 reservoirs/dams in the
> Dakotas. How do you balance those?
> 13. It's been said that the barge industry further south gets too much
> attention and isn't big enough commercially to warrant maintaining
> high flows? How important is the barge industry in this balance?
> 14. Are you influenced heavily by political pressure to maintain
> enough water for the barge industry, and how important is that
> industry... really?
> 15. In the Dakotas, you get pressure to "Keep our water here",
> especially during drought years (2002--2008), by various groups
> including the tourism, recreation and business communities. How do you
> react to that pressure during times of low water?
> 16. Would you manage the reservoirs differently if it weren't for
> propagation of the piping plover and least tern?
> 17. Who directs the Corps to maintain specific water levels for these
> birds, as well as manage/build sandbars for them?
> 18. I believe Sakakawea's dam height at the top is 1875 feet. If
> that's correct, why is the flood peak at 1854, so much lower? What is
> the dam height of Ft. Peck and Lake Oahe?
> 19. What's the Corps' overall reaction to all of this? Would you have
> done anything differently knowing what you know now?
> 20. Will the Corps do anything differently when this is over as far as
> management operations?

> Classification: UNCLASSIFIED
> Caveats: NONE

>
>
>
>

[REDACTED] NWO

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 12:53 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO
Subject: Fw: Operation... (UNCLASSIFIED)

Kim/Jody;

If you had to pick a date of when we started this event, what date would you use?

Erik

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: McMahon, John R BG NWD
To: [REDACTED] NWD; Blechinger, Erik T NWO
Sent: Mon Jun 06 10:45:40 2011
Subject: Re: Operation... (UNCLASSIFIED)

I was thinking Operation Heartland Response OR Operation Mighty Mo. The first has more resonance with me (and Lori agrees). Gotta decide and use it today. Thoughts?

What's the D-date? Thanks.

Vr/John

----- Original Message -----

From: [REDACTED] NWD
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Sent: Mon Jun 06 10:09:49 2011
Subject: RE: Operation... (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

I like that.

-----Original Message-----

From: Blechinger, Erik T NWO
Sent: Monday, June 06, 2011 10:07 AM
To: [REDACTED] NWD; McMahon, John R BG NWD
Subject: RE: Operation... (UNCLASSIFIED)

Ruch liked Mighty Mo. Did not canvas the KC folks.

-----Original Message-----

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 12:04 PM
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Subject: RE: Operation... (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Hmm, none really strike a chord with me.

How about: "Operation Big Muddy"; or "Operation Big Muddy 2011"?

-----Original Message-----

From: Blechinger, Erik T NWO

Sent: Monday, June 06, 2011 7:38 AM

To: McMahon, John R BG NWD; [REDACTED] NWD

Cc: Blechinger, Erik T NWO

Subject: FW: Operation...

I am not the most creative guy, so I had the team brainstorm and here is what they came up with. Let me know if any are even in the ball park.

Operation:

River storm,
Rolling river,
Heartland floods,
Heartland hurricane,
Heartland heartbreak,
Raging river,
Snowflake,
Basin wide,
Summer surge,
Water war,
Water course,
MR basin battle,
Battle for our basin,
Muddy fight
Operation Mighty Monster
Operation nature tamed
Inundation Recovery
Rolling Thunder
Delta Thunder
Epic Thunder
Human spirit
Mighty Monster

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWK
Sent: Monday, June 06, 2011 12:41 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)
Attachments: GlenElderSoilCement2009.jpg; GlenElderSoilCement2009B.jpg; Glen Elder Spillway Repair - Flooding - May 2011.JPG; GlenElderSpillwayRepair1210.JPG

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

We have received the following information and attached photographs from the Bureau of Reclamation. There are significant safety concerns at Glen Elder Dam (Waconda Lake). We request a deviation to release 1,500 cfs through Glen Elder dam to minimize the chance of spillway release and help provide suitable conditions for repair of the structure. The deviation is requested until the construction is completed.

We understand that there are concerns with the Missouri River flow. However, the 1,500 cfs is one percent of the expected mainstem project release and would reduce the chance of a catastrophic situation in the Solomon basin.

Thank you for your consideration of this Glen Elder Dam (Waconda Lake) operation deviation.

[REDACTED]
[REDACTED]
(Acting) Chief, Hydrologic Engineering Branch
[REDACTED]

-----Original Message-----

From: Peck, William E [<mailto:WPeck@usbr.gov>]
Sent: Friday, June 03, 2011 4:09 PM
To: [REDACTED] NWK
Cc: [REDACTED] NWK
Subject: Ongoing Construction Projects at Glen Elder Dam

Hello [REDACTED],

Have attached a couple of photos for each of the two construction projects taking place at Glen Elder Dam (Waconda Lake). The first photo of the spillway approach apron (immediately upstream of the spillway gates) gives you an idea of the scope of the repairs that were taking place. This photo was taken early last November. The second photo of the spillway construction project was taken when the lake level exceeded 1456.20 feet on May 25th. The contractor had removed all of his equipment from the small dike upstream of the apron after earlier notification that the lake level would be increasing several more feet. The contractor had constructed the dike to assist in the repairs to the spillway apron. As you can see from this photo there are at least three large concrete slabs that had not been completed at the time of the flooding. Would need to check with a structural engineer, but

thinking it would not be a good thing to run water through the spillway with a partially completed approach apron. I do know that there are some sort of anchors located within the apron that tie into the spillway structure to help prevent any movement (once again would need structural engineers evaluation). This is a 2.5 million dollar contract and is a ARRA project. It is my understanding that funding through ARRA is to run out at the end of September of this year. Not sure if this funding can be carried over, but if not, we will need to find another source to finish the construction.

The second two photo's are of the soil cement damage on the upstream face of the dam. There were numerous areas in need of repair with a few critical areas having as many as three lifts of soil cement missing or damaged. These repairs are made periodically to ensure that wave action does not find a path beneath the slabs and erode the underlining base material (embankment). Repairs are required when over 50 % of the soil cement coverage has been lost. The last repairs made to the soil cement face were completed in 1987. Prior to the flooding, I was informed that the repairs below elevation 1455.6 feet had been completed (contractor required to work on these areas first). There were several other areas above this level that were submerged before they could be repaired. I believe the initial construction cost was around \$500,000.

Both contractors were forced to de-mobilize because of the high reservoir level (both areas of repair are now several feet under the water). The contractors are to return to the job as soon as the water level approaches the top of conservation level. The cost of the projects will undoubtedly increase substantially as a result of the work stoppage (mostly due to the de-mobilization and re-mobilization according to COR on the job).

Just one other note, we will be required to make smaller releases to the river for the Glen Elder Irrigation District this summer (up to 200 cfs). In the big picture of things It seems that releasing 1,500 cfs would not be all that significant. I do understand however that there is the perception that we would be releasing from Glen Elder Dam when other structures would be forced to store water.

Hope this helps,

Let me know if you require more information or have additional questions.

Bill Peck

Chief, Water Operations

McCook Field Office

U.S. Bureau of Reclamation

1706 West 3rd Street

McCook, NE 69001

(308)-345-1029

Classification: UNCLASSIFIED

Caveats: NONE

PHOTO 1

REPAIR AREA 2

REPAIR AREA 1

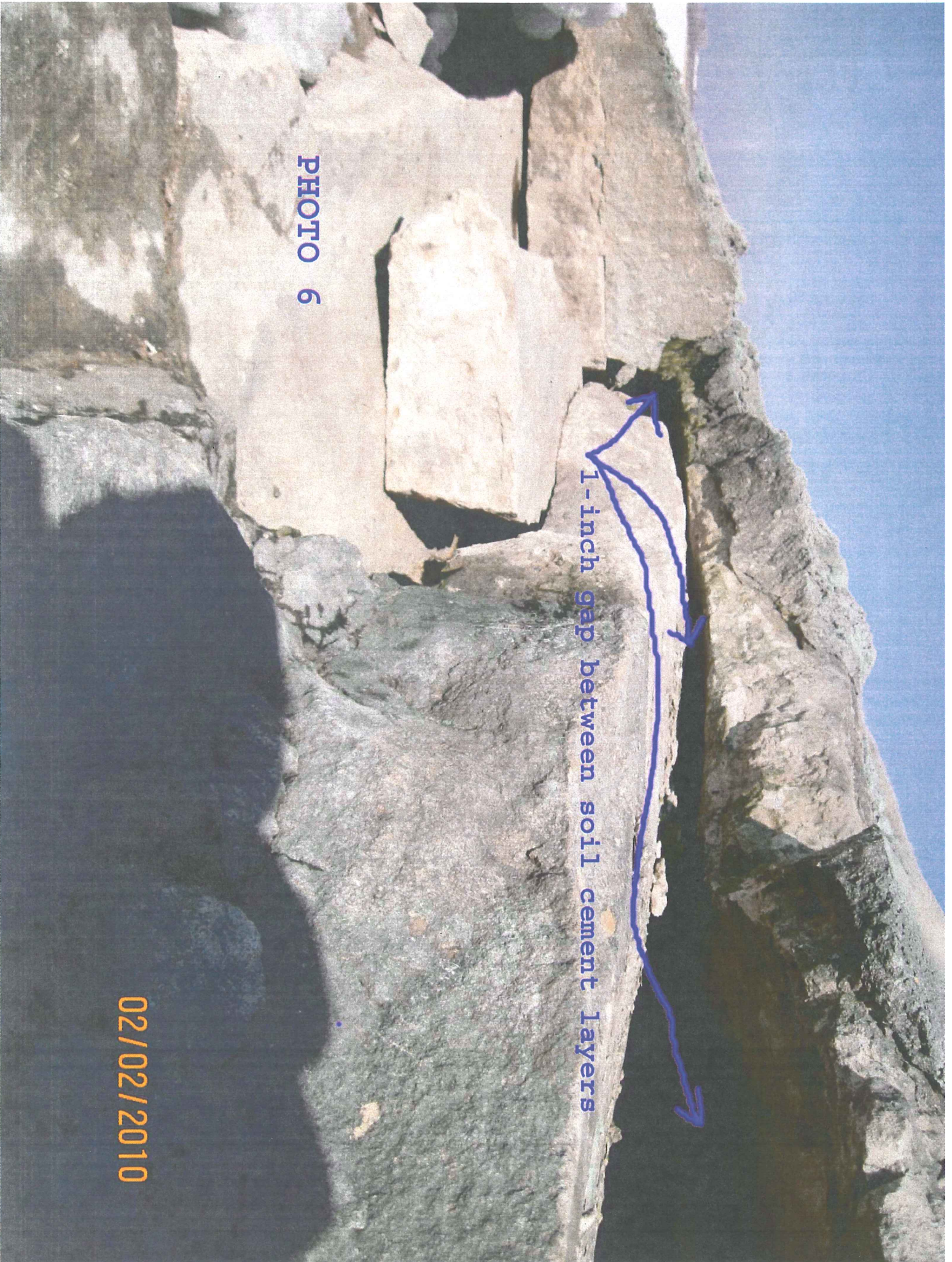
02/02/2010



PHOTO 6

1-inch gap between soil cement layers

02/02/2010





05/26/2011



NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 11:17 AM
To: Farhat, Jody S NWD02
Subject: RE: Interview Request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

What time?

Monique

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 10:53 AM
To: Farmer, Monique L NWO
Cc: [REDACTED] NWD
Subject: FW: Interview Request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Monique and Christina,

FYI, Bill Mitzel, editor/publisher of Dakota Country magazine out of Bismarck, ND, has requested an interview with me. He offered to send the questions in advance, see below. No show stoppers. Tomorrow morning looks good on my calendar, would you be available?

Jody

-----Original Message-----

From: bill mitzel [<mailto:dcmag@orbitcom.biz>]
Sent: Monday, June 06, 2011 10:41 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... here's a list of 20 questions for your advance review. I might have a few more in-between, as we visit on the phone. Please review these and let me know what time we can do this during the coming week here. I anticipate about an hour, give or take. Thanks very much for your time.

Bill Mitzel
Dakota County Magazine

Questions for interview with Corps of Engineers...

1. How did this all happen so quickly?
2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?
3. Snowpack wasn't a problem until early June and by then releases were over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?

4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?
5. Weren't these dams built to prevent this type of flooding?
6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year. The 2010 runoff forecast then was at 115%. The ground was saturated with water. Did you sense a return of a wet cycle then? Was there a red flag at that time?
7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)
8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?
9. There are three factors that people seem to be upset with: 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff? 2) Did the Corps misjudge the amount on snowpack in the mountains last winter? 3) Management of the system in conjunction with the piping plover and least tern?
10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?
11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?
12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?
13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?
14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?
15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?
16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?
17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?
18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?
19. What's the Corps' overall reaction to all of this? Would you have done anything differently knowing what you know now?
20. Will the Corps do anything differently when this is over as far as management operations?

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: Williamson, Eileen L NWO
Sent: Monday, June 06, 2011 11:16 AM
To: DLL-CENWO-ALL Employees; DLL-CENWD Zorinsky-Floor 3
Subject: FW: Riverwatch June 6, 2011 #2011MoRivFlood (UNCLASSIFIED)
Attachments: 606NR-RIVERWATCH6-11.pdf

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 6 Jun; 0735 CDT) Fort Peck (In operation since 1940) Midnight Elevation

- * 2250.4 ft msl
- * 24-hr Change (+0.1ft)

Daily Avg. Inflow

- * 52,000 cfs (5 Jun)
- * 46,000 cfs (4 Jun)

Daily Avg. Release

- * 36,900 cfs (5 Jun)
- * 27,500 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use
Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone
(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

- * 50,000 cfs (Mid June)

Garrison (In operation since 1955)

Midnight Elevation

- * 1853.5 ft msl
- * 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 100,000 cfs (5 Jun)
- * 120,000 cfs (4 Jun)

Daily Avg. Release

- * 115,300 cfs (5 Jun)
- * 114,300 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1850 ft msl - 1854 ft msl

Top of Spillway Gates

- * 1854 ft msl

River Stage (Bismarck)

- * 17.23 (0715 CDT 6 Jun)
- * Flood stage - 16 ft
- * 17.35 (0815 CDT 5 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- * First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

- * 1854.8 msl (1975)

Record Flow (Year)

- * 65,000 cfs (1975)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Oahe (In operation since 1962)

Midnight Elevation

- * 1619.2 ft msl
- * 24-hr Change (+0.0 ft)

Daily Avg. Inflow

- * 133,000 cfs (5 Jun)
- * 110,000 cfs (4 Jun)

Daily Avg. Release

- * 126,800 cfs (5 Jun)
- * 111,800 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.07 (0730 CDT 6 Jun)

* Flood stage - 15 ft

* 17.88 (0845 CDT 5 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend (In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 116,000 cfs (5 Jun)

* 96,000 cfs (4 Jun)

Daily Avg. Release

* 114,200 cfs (5 Jun)

* 102,300 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall (In operation since 1953)

Midnight Elevation

* 1360.5 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 120,000 cfs (5 Jun)

* 108,000 cfs (4 Jun)

Daily Avg. Release

* 112,400 cfs (5 Jun)

* 100,500 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point (In operation since 1955)

Midnight Elevation

* 1206.3 ft msl

* 24-hr Change (-0.2 ft)

Daily Avg. Inflow

* 104,000 cfs (5 Jun)

* 92,000 cfs (4 Jun)

Daily Avg. Release

* 101,900 cfs (5 Jun)

* 92,900 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975245x167323>>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Mostly sunny, with a high near 76. East wind between 13 and 21 mph, with gusts as high as 29 mph.

Tonight: Showers and thunderstorms likely, then showers and possibly a thunderstorm after midnight. Some of the storms could be severe and produce heavy rainfall. Low around 56. Breezy, with a east wind between 22 and 29 mph, with gusts as high as 40 mph. Chance of precipitation is 80%.

Tuesday: Showers and possibly a thunderstorm. Some of the storms could produce heavy rainfall. High near 62. Windy, with a east northeast wind between 23 and 30 mph, with gusts as high as 43 mph. Chance of precipitation is 80%.

24-hr forecast (Riverdale, ND)

Today: Mostly sunny, with a high near 78. Northeast wind from 7 to 15 mph, gusts as high as 22 mph.

Tonight: A 40% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 58. Breezy, with a east wind from 14 to 21 mph, gusts as high as 30 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. East wind from 9 to 18 mph, with gusts as high as 26 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms

24-hr forecast (Washburn, ND)

Today: Mostly sunny, with a high near 79. Northeast wind from 6 to 14 mph, gusts as high as 20 mph.

Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 59. Breezy, with a east wind from 14 to 22 mph, gusts as high as 31 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. Southeast wind 15 to 18 mph decreasing to from 6 to 9 mph. Winds may gust as high as 25 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

24-hr forecast (Bismarck/Mandan, ND)

Today: Mostly sunny, with a high near 82. Light wind becoming east from 12 to 15 mph. Winds may gust as high as 22 mph.

Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 62. Breezy, with a east wind between 16 and 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 75. East wind 7 to 15 mph becoming southwest. Winds may gust as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 13 mph.

Tuesday: Mostly sunny, with a high near 89. Breezy, with a southeast wind 11 to 21 mph becoming west.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 14 mph.

Tuesday: Mostly sunny and hot, with a high near 91. Breezy, with a southeast wind 10 to 13 mph becoming west southwest between 18 and 21 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny and hot, with a high near 95. East southeast wind between 7 and 13 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 68. South southeast wind between 11 and 13 mph.

Tuesday: Mostly sunny and hot, with a high near 90. Breezy, with a south southeast wind 13 to 20 mph becoming west.

24-hr forecast (Chamberlain, SD)

Today: Sunny and hot, with a high near 95. Southeast wind between 5 and 11 mph.

Tonight: Mostly clear, with a low around 70. Southeast wind between 9 and 13 mph.

Tuesday: Sunny, with a high near 89. Breezy, with a south southeast wind 14 to 20 mph becoming west southwest. Winds could gust as high as 28 mph.

24-hr forecast (Yankton, SD)

Today: Sunny and hot, with a high near 96. South southeast wind between 5 and 10 mph.

Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.

Tuesday: Sunny, with a high near 92. Breezy, with a south southwest wind between 14 and 20 mph, with gusts as high as 28 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 96. South southwest wind between 7 and 13 mph.

Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.

Tuesday: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 13 and 23 mph, with gusts as high as 32 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 97. South southwest wind between 9 and 14 mph, with gusts as high as 20 mph.

Tonight: Mostly clear, with a low around 73. South wind around 14 mph, with gusts as high as 20 mph.

Tuesday: Mostly sunny, with a high near 96. Breezy, with a south wind between 15 and 23 mph, with gusts as high as 32 mph.

Source of information: <http://www.weather.gov/> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975244x1142800>>

Internet: <http://www.nwo.usace.army.mil> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975243x623004>>

Facebook: <http://www.facebook.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975242x103208>>

Twitter: <http://www.twitter.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975241x1078681>>

YouTube: <http://www.youtube.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975240x558884>>

Flickr: <http://www.flickr.com/photos/omahausace> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975239x39087>>

<<http://us.vocuspr.com/Url.aspx?520028x975246x687118>>

If you would rather not receive future communications from U.S. Army Corps of Engineers Omaha District, let us know by clicking here. <<http://USACEARMY.pr-optout.com/Url.aspx?520028x975246x687118>>

optout.com/OptOut.aspx?520028x24691x317160x3x1874483x24000x6&Email=eileen.l.williamson%40usac
e.army.mil>

U.S. Army Corps of Engineers Omaha District, 1616 Capitol Ave, Omaha, NE 68102 United States

Classification: UNCLASSIFIED

Caveats: NONE



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem Reservoir Bulletin (Updated 6 Jun; 0735 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
<p>Midnight Elevation</p> <ul style="list-style-type: none">2250.4 ft msl24-hr Change (+0.1ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">52,000 cfs (5 Jun)46,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">36,900 cfs (5 Jun)27,500 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">2234 ft msl – 2246 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">2246 ft msl – 2250 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">2250 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Peak release will be 50,000 cfs by no later than mid June.Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">2251.6 msl (1975) <p>Record Flow (Year)</p> <ul style="list-style-type: none">35,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">50,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">1853.5 ft msl24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">100,000 cfs (5 Jun)120,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">115,300 cfs (5 Jun)114,300 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">1837.5 ft msl – 1850 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">1850 ft msl – 1854 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">1854 ft msl <p>River Stage (Bismarck)</p> <ul style="list-style-type: none">17.23 (0715 CDT 6 Jun)Flood stage – 16 ft17.35 (0815 CDT 5 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.First time in history, spillway gates will be used to pass floodwaters. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">1854.8 msl (1975) <p>Record Flow (Year)</p> <ul style="list-style-type: none">65,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">1619.2 ft msl24-hr Change (+0.0 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">133,000 cfs (5 Jun)110,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">126,800 cfs (5 Jun)111,800 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">1607.5 ft msl – 1620 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">1617 ft msl – 1620 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">1620 ft msl <p>River Stage (Pierre)</p> <ul style="list-style-type: none">18.07 (0730 CDT 6 Jun)Flood stage – 15 ft17.88 (0845 CDT 5 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">1618.7 msl (1995) <p>Record Flow (Year)</p> <ul style="list-style-type: none">59,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">1419.3 ft msl24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">116,000 cfs (5 Jun)96,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">114,200 cfs (5 Jun)102,300 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">1420 ft msl – 1423 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">1422 ft msl – 1423 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">1423 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will remain essentially level at 1420 feet. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">1422.1 msl (1991) <p>Record Flow (Date)</p> <ul style="list-style-type: none">74,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">1360.5 ft msl24-hr Change (+0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">120,000 cfs (5 Jun)108,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">112,400 cfs (5 Jun)100,500 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">1350 ft msl – 1375 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">1365 ft msl – 1375 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">1375 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">1372.2 msl (1997) <p>Record Flow (Date)</p> <ul style="list-style-type: none">67,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">1206.3 ft msl24-hr Change (-0.2 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">104,000 cfs (5 Jun)92,000 cfs (4 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">101,900 cfs (5 Jun)92,900 cfs (4 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">1204.5 ft msl – 1210 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">1208 ft msl – 1210 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">1210 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">1209.7 msl (2010) <p>Record Flow (Date)</p> <ul style="list-style-type: none">70,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Mostly sunny, with a high near 76. East wind between 13 and 21 mph, with gusts as high as 29 mph.</p> <p>Tonight: Showers and thunderstorms likely, then showers and possibly a thunderstorm after midnight. Some of the storms could be severe and produce heavy rainfall. Low around 56. Breezy, with a east wind between 22 and 29 mph, with gusts as high as 40 mph. Chance of precipitation is 80%.</p> <p>Tuesday: Showers and possibly a thunderstorm. Some of the storms could produce heavy rainfall. High near 62. Windy, with a east northeast wind between 23 and 30 mph, with gusts as high as 43 mph. Chance of precipitation is 80%.</p>	<p>24-hr forecast (Riverdale, ND) Today: Mostly sunny, with a high near 78. Northeast wind from 7 to 15 mph, gusts as high as 22 mph.</p> <p>Tonight: A 40% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 58. Breezy, with a east wind from 14 to 21 mph, gusts as high as 30 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p> <p>Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. East wind from 9 to 18 mph, with gusts as high as 26 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms</p>	<p>24-hr forecast (Pierre, SD) Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 13 mph.</p> <p>Tuesday: Mostly sunny, with a high near 89. Breezy, with a southeast wind 11 to 21 mph becoming west.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 14 mph.</p> <p>Tuesday: Mostly sunny and hot, with a high near 91. Breezy, with a southeast wind 10 to 13 mph becoming west southwest between 18 and 21 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Sunny and hot, with a high near 95. East southeast wind between 7 and 13 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 68. South southeast wind between 11 and 13 mph.</p> <p>Tuesday: Mostly sunny and hot, with a high near 90. Breezy, with a south southeast wind 13 to 20 mph becoming west.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Sunny and hot, with a high near 95. Southeast wind between 5 and 11 mph.</p> <p>Tonight: Mostly clear, with a low around 70. Southeast wind between 9 and 13 mph.</p> <p>Tuesday: Sunny, with a high near 89. Breezy, with a south southeast wind 14 to 20 mph becoming west southwest. Winds could gust as high as 28 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Sunny and hot, with a high near 96. South southeast wind between 5 and 10 mph.</p> <p>Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.</p> <p>Tuesday: Sunny, with a high near 92. Breezy, with a south southwest wind between 14 and 20 mph, with gusts as high as 28 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 96. South southwest wind between 7 and 13 mph.</p> <p>Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.</p> <p>Tuesday: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 13 and 23 mph, with gusts as high as 32 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: Mostly sunny, with a high near 82. Light wind becoming east from 12 to 15 mph. Winds may gust as high as 22 mph.</p> <p>Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 62. Breezy, with a east wind between 16 and 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p> <p>Tuesday: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 75. East wind 7 to 15 mph becoming southwest. Winds may gust as high as 21 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Sunny and hot, with a high near 97. South southwest wind between 9 and 14 mph, with gusts as high as 20 mph.</p> <p>Tonight: Mostly clear, with a low around 73. South wind around 14 mph, with gusts as high as 20 mph.</p> <p>Tuesday: Mostly sunny, with a high near 96. Breezy, with a south wind between 15 and 23 mph, with gusts as high as 32 mph.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 10:44 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD02
Subject: RE: Missouri River Flood briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,
We are gradually moving the web updates over to Scott. I had him post this presentation to the public website.
Mike

-----Original Message-----
From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 10:15 AM
To: Anderson, G Witt NWD; [REDACTED] NWD02
Cc: [REDACTED] NWD02
Subject: Missouri River Flood briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Witt, I've posted the briefing on the public ftp site. The link is shown below.

<ftp://ftp.usace.army.mil/pub/nwd/Mo%20River%20Flooding%206%20June%20update/>

[REDACTED] - Please post this on our website for public information. I've saved it out on v:\public\flood 2011

Thanks,
Jody

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: bill mitzel [dcmag@orbitcom.biz]
Sent: Monday, June 06, 2011 10:41 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)
Attachments: Corps Questions.indd; ATT451027.htm

Jody... here's a list of 20 questions for your advance review. I might have a few more in-between, as we visit on the phone. Please review these and let me know what time we can do this during the coming week here. I anticipate about an hour, give or take. Thanks very much for your time.

Bill Mitzel
Dakota County Magazine

Questions for interview with Corps of Engineers...

1. How did this all happen so quickly?
2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?
3. Snowpack wasn't a problem until early June and by then releases were over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?
4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?
5. Weren't these dams built to prevent this type of flooding?
6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year. The 2010 runoff forecast then was at 115%. The ground was saturated with water. Did you sense a return of a wet cycle then? Was there a red flag at that time?
7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)
8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?
9. There are three factors that people seem to be upset with: 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff? 2) Did the Corps misjudge the amount on snowpack in the mountains last winter? 3) Management of the system in conjunction with the piping plover and least tern?
10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?
11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?
12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?
13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?
14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?
15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?
16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?

17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?
18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?
19. What's the Corps' overall reaction to all of this? Would you have done anything differently knowing what you know now?
20. Will the Corps do anything differently when this is over as far as management operations?

On Jun 3, 2011, at 11:22 AM, Farhat, Jody S NWD02 wrote:

Classification: UNCLASSIFIED

Caveats: NONE

Bill, I'd be happy to help. A list of initial questions via email would be best to start out with since it may take a variety of different folks to answer them. Then we could follow up with a taped interview if you'd like to fill in any gaps.

Jody

-----Original Message-----

From: bill mitzel [<mailto:dcmag@orbitcom.biz>]

Sent: Friday, June 03, 2011 10:39 AM

To: Farhat, Jody S NWD02

Subject: Interview Request

Jody... I'm Bill Mitzel, editor/publisher of Dakota Country magazine out of Bismarck, ND. We're a monthly hunting/fishing magazine, as you probably know. We publish monthly news summaries by the department each month.

I'd like to do an interview with you, or someone else deemed appropriate, for our upcoming July issue. It could be a taped phone interview (preferred) or I could send a list of questions by email.

What I'm interested in is a feature that entails what's happening here with the system, why it's happening, how did it get this bad. Frankly Jody, as you know, there are a huge number of angry people about this all. I'm looking to launch and attack on the Corps with this, just needing some answers that people are asking. There will be some tough questions. Wondering if you can help. Thanks very much.

Bill Mitzel

Dakota Country magazine

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Monday, June 06, 2011 10:08 AM
To: [REDACTED] NWD02
Cc: Farhat, Jody S NWD02
Subject: FW: Media Advisory for today... (UNCLASSIFIED)
Attachments: MissouriRiverTelecon-Media Advisory.docx

Classification: UNCLASSIFIED
Caveats: NONE

FYI - Thanks for doing this today Kevin.

MF

-----Original Message-----

From: Christopher Vaccaro [<mailto:Christopher.Vaccaro@noaa.gov>]
Sent: Monday, June 06, 2011 9:50 AM
To: Farmer, Monique L NWO
Subject: Media Advisory for today...

Monique-

Attached is the media advisory we're issuing this morning. FEMA is also alerting their press contacts and hope USACE can, too.

Thanks,
-Chris

Classification: UNCLASSIFIED
Caveats: NONE



NOAA

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE



Contact: National Weather Service Public Affairs
301-713-0622

FOR IMMEDIATE RELEASE
June 6, 2011

Media Advisory

TODAY: NOAA/FEMA/USACE Media Teleconference on Missouri River Flooding

Spring and summer is presenting unusual major river flooding in the central United States. Although spring snowmelt flooding is well past its peak, continued heavy rain has brought new flood threats much later than normal. Significant flooding is expected to last several weeks along the Missouri River, which drains into the Mississippi River near St. Louis and will bring another rise in river levels to the lower Mississippi, which has already been flooded for several weeks.

NOAA's National Weather Service along with the U.S. Army Corp of Engineers and the Federal Emergency Management Agency will host a teleconference to provide the latest forecast and response information for areas affected by the swollen Missouri River.

WHAT: Media teleconference regarding flooding along the Missouri River.

WHEN: Monday, June 6; 1 p.m. CDT / 2 p.m. EDT

WHO:

Lynn Maximuk, National Weather Service Central Region Director

Kevin Grode, Missouri Basin Reservoir Regulation Team Leader, Water Management Office,
U.S. Army Corp of Engineers

Richard Serino, Deputy Administrator, Federal Emergency Management Agency

HOW: 888-790-6116; passcode: NOAA

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NWO

From: Williamson, Eileen L NWO
Sent: Monday, June 06, 2011 10:05 AM
To: Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] RC; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Subject: Riverwatch - Flood Fight Storyboard June 6, 2011 (UNCLASSIFIED)
Attachments: Flood_Fight_Storyboard_6aJUN.docx

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 6 Jun; 0735 CDT)

Fort Peck (In operation since 1940)

Midnight Elevation

* 2250.4 ft msl
* 24-hr Change (+0.1ft)

Daily Avg. Inflow

* 52,000 cfs (5 Jun)
* 46,000 cfs (4 Jun)

Daily Avg. Release

* 36,900 cfs (5 Jun)
* 27,500 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison (In operation since 1955)

Midnight Elevation

* 1853.5 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 100,000 cfs (5 Jun)

* 120,000 cfs (4 Jun)

Daily Avg. Release

* 115,300 cfs (5 Jun)

* 114,300 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.23 (0715 CDT 6 Jun)

* Flood stage - 16 ft

* 17.35 (0815 CDT 5 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe (In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.0 ft)

Daily Avg. Inflow

* 133,000 cfs (5 Jun)

* 110,000 cfs (4 Jun)

Daily Avg. Release

* 126,800 cfs (5 Jun)

* 111,800 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.07 (0730 CDT 6 Jun)

* Flood stage - 15 ft

* 17.88 (0845 CDT 5 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend (In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 116,000 cfs (5 Jun)
- * 96,000 cfs (4 Jun)

Daily Avg. Release

- * 114,200 cfs (5 Jun)
- * 102,300 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

- * 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

- * 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall (In operation since 1953)

Midnight Elevation

* 1360.5 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 120,000 cfs (5 Jun)

* 108,000 cfs (4 Jun)

Daily Avg. Release

* 112,400 cfs (5 Jun)

* 100,500 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point (In operation since 1955)

Midnight Elevation

* 1206.3 ft msl

* 24-hr Change (-0.2 ft)

Daily Avg. Inflow

* 104,000 cfs (5 Jun)

* 92,000 cfs (4 Jun)

Daily Avg. Release

* 101,900 cfs (5 Jun)

* 92,900 cfs (4 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Mostly sunny, with a high near 76. East wind between 13 and 21 mph, with gusts as high as 29 mph.

Tonight: Showers and thunderstorms likely, then showers and possibly a thunderstorm after midnight. Some of the storms could be severe and produce heavy rainfall. Low around 56. Breezy, with a east wind between 22 and 29 mph, with gusts as high as 40 mph. Chance of precipitation is 80%.

Tuesday: Showers and possibly a thunderstorm. Some of the storms could produce heavy rainfall. High near 62. Windy, with a east northeast wind between 23 and 30 mph, with gusts as high as 43 mph. Chance of precipitation is 80%.

24-hr forecast (Riverdale, ND)

Today: Mostly sunny, with a high near 78. Northeast wind from 7 to 15 mph, gusts as high as 22 mph.

Tonight: A 40% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 58. Breezy, with a east wind from 14 to 21 mph, gusts as high as 30 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. East wind from 9 to 18 mph, with gusts as high as 26 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms

24-hr forecast (Washburn, ND)

Today: Mostly sunny, with a high near 79. Northeast wind from 6 to 14 mph, gusts as high as 20 mph.

Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 59. Breezy, with a east wind from 14 to 22 mph, gusts as high as 31 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. Southeast wind 15 to 18 mph decreasing to from 6 to 9 mph. Winds may gust as high as 25 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

24-hr forecast (Bismarck/Mandan, ND)

Today: Mostly sunny, with a high near 82. Light wind becoming east from 12 to 15 mph. Winds may gust as high as 22 mph.

Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 62. Breezy, with a east wind between 16 and 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.

Tuesday: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 75. East wind 7 to 15 mph becoming southwest. Winds may gust as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 13 mph.

Tuesday: Mostly sunny, with a high near 89. Breezy, with a southeast wind 11 to 21 mph becoming west.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.

Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 14 mph.

Tuesday: Mostly sunny and hot, with a high near 91. Breezy, with a southeast wind 10 to 13 mph becoming west southwest between 18 and 21 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny and hot, with a high near 95. East southeast wind between 7 and 13 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 68. South southeast wind between 11 and 13 mph.

Tuesday: Mostly sunny and hot, with a high near 90. Breezy, with a south southeast wind 13 to 20 mph becoming west.

24-hr forecast (Chamberlain, SD)

Today: Sunny and hot, with a high near 95. Southeast wind between 5 and 11 mph.

Tonight: Mostly clear, with a low around 70. Southeast wind between 9 and 13 mph.

Tuesday: Sunny, with a high near 89. Breezy, with a south southeast wind 14 to 20 mph becoming west southwest. Winds could gust as high as 28 mph.

24-hr forecast (Yankton, SD)

Today: Sunny and hot, with a high near 96. South southeast wind between 5 and 10 mph.

Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.

Tuesday: Sunny, with a high near 92. Breezy, with a south southwest wind between 14 and 20 mph, with gusts as high as 28 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 96. South southwest wind between 7 and 13 mph.

Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.

Tuesday: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 13 and 23 mph, with gusts as high as 32 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 97. South southwest wind between 9 and 14 mph, with gusts as high as 20 mph.

Tonight: Mostly clear, with a low around 73. South wind around 14 mph, with gusts as high as 20 mph.

Tuesday: Mostly sunny, with a high near 96. Breezy, with a south wind between 15 and 23 mph, with gusts as high as 32 mph.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 6 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)
9 (Lander, WY)
14 (Bismarck, ND)
4 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
2 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 30,360 LF

On Hand: 15,880 LF

Projected Outstanding Requirements: 36,120 LF

Currently working on: 19,000 LF due in from LA

Poly Rolls

Issued: 2040 rolls

On Hand: 1077 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps (ND, SD).

On Hand: ZERO.

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

2600LF 4' HESCO from Dakota Dunes Today

7 pumps w/o hoses returning from LA Sun, Hoses being shipped separately,
working.

Arranging for 9 Pumps w/ hoses to ship from LA

Sandbags

Issued: 13.4 M

On Hand: 4,663,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8,
650K due in from NWS.

Source of information: CMT Brief (5 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem Reservoir Bulletin (Updated 6 Jun; 0735 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
Midnight Elevation <ul style="list-style-type: none">2250.4 ft msl24-hr Change (+0.1ft) Daily Avg. Inflow <ul style="list-style-type: none">52,000 cfs (5 Jun)46,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">36,900 cfs (5 Jun)27,500 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">2234 ft msl – 2246 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">2246 ft msl – 2250 ft msl Top of Spillway Gates <ul style="list-style-type: none">2250 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Peak release will be 50,000 cfs by no later than mid June.Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. Record Pool Elevation (Year) <ul style="list-style-type: none">2251.6 msl (1975) Record Flow (Year) <ul style="list-style-type: none">35,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none">50,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1853.5 ft msl24-hr Change (-0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none">100,000 cfs (5 Jun)120,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">115,300 cfs (5 Jun)114,300 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1837.5 ft msl – 1850 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1850 ft msl – 1854 ft msl Top of Spillway Gates <ul style="list-style-type: none">1854 ft msl River Stage (Bismarck) <ul style="list-style-type: none">17.23 (0715 CDT 6 Jun)Flood stage – 16 ft17.35 (0815 CDT 5 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised. Record Pool Elevation (Year) <ul style="list-style-type: none">1854.8 msl (1975) Record Flow (Year) <ul style="list-style-type: none">65,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1619.2 ft msl24-hr Change (+0.0 ft) Daily Avg. Inflow <ul style="list-style-type: none">133,000 cfs (5 Jun)110,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">126,800 cfs (5 Jun)111,800 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1607.5 ft msl – 1620 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1617 ft msl – 1620 ft msl Top of Spillway Gates <ul style="list-style-type: none">1620 ft msl River Stage (Pierre) <ul style="list-style-type: none">18.07 (0730 CDT 6 Jun)Flood stage – 15 ft17.88 (0845 CDT 5 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. Record Pool Elevation (Year) <ul style="list-style-type: none">1618.7 msl (1995) Record Flow (Year) <ul style="list-style-type: none">59,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1419.3 ft msl24-hr Change (-0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none">116,000 cfs (5 Jun)96,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">114,200 cfs (5 Jun)102,300 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1420 ft msl – 1423 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1422 ft msl – 1423 ft msl Top of Spillway Gates <ul style="list-style-type: none">1423 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will remain essentially level at 1420 feet. Record Pool Elevation (Year) <ul style="list-style-type: none">1422.1 msl (1991) Record Flow (Date) <ul style="list-style-type: none">74,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1360.5 ft msl24-hr Change (+0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none">120,000 cfs (5 Jun)108,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">112,400 cfs (5 Jun)100,500 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1350 ft msl – 1375 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1365 ft msl – 1375 ft msl Top of Spillway Gates <ul style="list-style-type: none">1375 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none">1372.2 msl (1997) Record Flow (Date) <ul style="list-style-type: none">67,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1206.3 ft msl24-hr Change (-0.2 ft) Daily Avg. Inflow <ul style="list-style-type: none">104,000 cfs (5 Jun)92,000 cfs (4 Jun) Daily Avg. Release <ul style="list-style-type: none">101,900 cfs (5 Jun)92,900 cfs (4 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1204.5 ft msl – 1210 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1208 ft msl – 1210 ft msl Top of Spillway Gates <ul style="list-style-type: none">1210 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none">1209.7 msl (2010) Record Flow (Date) <ul style="list-style-type: none">70,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Mostly sunny, with a high near 76. East wind between 13 and 21 mph, with gusts as high as 29 mph.</p> <p>Tonight: Showers and thunderstorms likely, then showers and possibly a thunderstorm after midnight. Some of the storms could be severe and produce heavy rainfall. Low around 56. Breezy, with a east wind between 22 and 29 mph, with gusts as high as 40 mph. Chance of precipitation is 80%.</p> <p>Tuesday: Showers and possibly a thunderstorm. Some of the storms could produce heavy rainfall. High near 62. Windy, with a east northeast wind between 23 and 30 mph, with gusts as high as 43 mph. Chance of precipitation is 80%.</p>	<p>24-hr forecast (Riverdale, ND) Today: Mostly sunny, with a high near 78. Northeast wind from 7 to 15 mph, gusts as high as 22 mph.</p> <p>Tonight: A 40% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 58. Breezy, with a east wind from 14 to 21 mph, gusts as high as 30 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p> <p>Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. East wind from 9 to 18 mph, with gusts as high as 26 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms</p> <p>24-hr forecast (Washburn, ND) Today: Mostly sunny, with a high near 79. Northeast wind from 6 to 14 mph, gusts as high as 20 mph.</p> <p>Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 59. Breezy, with a east wind from 14 to 22 mph, gusts as high as 31 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p> <p>Tuesday: A 50% chance of showers and thunderstorms. Mostly cloudy, with a high near 71. Southeast wind 15 to 18 mph decreasing to from 6 to 9 mph. Winds may gust as high as 25 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p>	<p>24-hr forecast (Pierre, SD) Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 13 mph.</p> <p>Tuesday: Mostly sunny, with a high near 89. Breezy, with a southeast wind 11 to 21 mph becoming west.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: Sunny and hot, with a high near 93. East southeast wind between 7 and 11 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms. Partly cloudy, with a low around 67. South southeast wind between 11 and 14 mph.</p> <p>Tuesday: Mostly sunny and hot, with a high near 91. Breezy, with a southeast wind 10 to 13 mph becoming west southwest between 18 and 21 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Sunny and hot, with a high near 95. East southeast wind between 7 and 13 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 68. South southeast wind between 11 and 13 mph.</p> <p>Tuesday: Mostly sunny and hot, with a high near 90. Breezy, with a south southeast wind 13 to 20 mph becoming west.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Sunny and hot, with a high near 95. Southeast wind between 5 and 11 mph.</p> <p>Tonight: Mostly clear, with a low around 70. Southeast wind between 9 and 13 mph.</p> <p>Tuesday: Sunny, with a high near 89. Breezy, with a south southeast wind 14 to 20 mph becoming west with gusts as high as 28 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 96. South southwest wind between 7 and 13 mph.</p> <p>Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.</p> <p>Tuesday: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 13 and 23 mph, with gusts as high as 32 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Sunny and hot, with a high near 96. South southeast wind between 5 and 10 mph.</p> <p>Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.</p> <p>Tuesday: Sunny, with a high near 92. Breezy, with a south southwest wind between 14 and 20 mph, with gusts as high as 28 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 96. South southwest wind between 7 and 13 mph.</p> <p>Tonight: Mostly clear, with a low around 72. South wind between 9 and 11 mph.</p> <p>Tuesday: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 13 and 23 mph, with gusts as high as 32 mph.</p>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 6 Jun; 0735 CDT)

Fort Peck	Garrison	Osage	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: Mostly sunny, with a high near 82. Light wind becoming east from 12 to 15 mph. Winds may gust as high as 22 mph.</p> <p>Tonight: A 30% chance of showers and thunderstorms, mainly after 1am. Mostly cloudy, with a low around 62. Breezy, with a east wind between 16 and 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in thunderstorms.</p> <p>Tuesday: A 40 percent chance of showers and thunderstorms. Mostly cloudy, with a high near 75. East wind 7 to 15 mph becoming southwest. Winds may gust as high as 21 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Sunny and hot, with a high near 97. South southwest wind between 9 and 14 mph, with gusts as high as 20 mph.</p> <p>Tonight: Mostly clear, with a low around 73. South wind around 14 mph, with gusts as high as 20 mph.</p> <p>Tuesday: Mostly sunny, with a high near 96. Breezy, with a south wind between 15 and 23 mph, with gusts as high as 32 mph.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>



Missouri River Flooding (Logistics) (Updated 6 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)	3 (Pierre, SD)	2 (Missouri River Survey)
9 (Lander, WY)	1 (Kansas City, MO)	1 (Decatur, NE)
14 (Bismarck, ND)	5 (Sioux City, IA)	3 (Offutt, NE)
4 (Fort Yates, ND)	4 (Dakota Dunes, SD)	6 (North Platte, NE)
4 (Williston, ND)	6 (S. Sioux City, NE)	2 (Roundup, MT)
1 (Minot, ND)		1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 30,360 LF

On Hand: 15,880 LF

Projected Outstanding Requirements: 36,120 LF

Currently working on: 19,000 LF due in from LA

Poly Rolls

Issued: 2040 rolls

On Hand: 1077 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps (ND, SD).

On Hand: ZERO.

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

2600LF 4' HESCO from Dakota Dunes Today

7 pumps w/o hoses returning from LA Sun, Hoses being shipped separately, working.

Arranging for 9 Pumps w/ hoses to ship from LA

Sandbags

Issued: 13.4 M

On Hand: 4,663,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8, 650K due in from NWS.

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Monday, June 06, 2011 9:47 AM
To: Tipton, Robert A Col NWD; [REDACTED] HQ02; [REDACTED] NWD; [REDACTED]
[REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: RE: Flooding information (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I'm checking with Jody on making the ftp site briefing material public accessible (it was in development for the Sen Thune briefing). I see no reason not to at this point, but let me work that.

[REDACTED]
-----Original Message-----

From: Tipton, Robert A Col NWD
Sent: Monday, June 06, 2011 7:43 AM
To: [REDACTED] HQ02; [REDACTED] NWD; [REDACTED] NWD; [REDACTED]
NWD
Subject: RE: Flooding information (UNCLASSIFIED)

[REDACTED]
I know the last two are internal only...will check on the last four and ask the team to identify if links are public or USACE internal only for future reports.

John/Ray: Please take for action. Let me know of all the links below, which ones are for public. For future reports identify links as public or USACE internal only.

Thanks,

RT

Robert A. Tipton, P.E.
COL, EN
Deputy Commander
Northwestern Division
U.S. Army Corps of Engineers

603-808-3701

-----Original Message-----

From: [REDACTED] HQ02
Sent: Monday, June 06, 2011 7:38 AM
To: Tipton, Robert A Col NWD; [REDACTED] NWD
Subject: FW: Flooding information (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

This is what I sent out...the one FTP site doesn't work...are any of these websites internal only?

██████████
Chief, Future Directions Branch/Civil Works

██████████ (desk)

██████████ (cell)

██████████ (fax)

-----Original Message-----

From: ██████████ HQ02

Sent: Monday, June 06, 2011 10:09 AM

To: ██████████ HQ02; 'roger_cockrell@appro.senate.gov'; 'rob.blair@mail.house.gov';
'taunja.berquam@mail.house.gov'; 'angie.giancarlo@mail.house.gov';
'john.anderson1@mail.house.gov'; 'geoff.bowman@mail.house.gov'; 'ryan.seiger@mail.house.gov';
'David.Wegner@mail.house.gov'; 'Murphie_Barrett@epw.senate.gov';
'jason_albritton@epw.senate.gov'; 'ted_illston@epw.senate.gov'; 'Miller, Kyle (EPW)';
'robert.edmonson@mail.house.gov'

Cc: ██████████ HQ02; ██████████ HQ

Subject: Flooding information (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

All - if you do not want this information, please let me know and I'll take you off the list
--- I will be sending another update shortly about the levee breach which is mentioned
briefly below.

Jen

=====

Missouri River Basin Flood Update as of 2200 05 June 2011 Pacific Time:

This report covers the operational period from 2200 04 May to 2200 05 June 2011 Pacific Time.

This morning about 0922 CDT, levee 575 suffered a partial breach. The levee is located at River Mile 552.5 in Atchison County, Mo. (near the Lower Hamburg Conservation Area) near southwest Fremont County, IA along the Missouri River near the Missouri/Iowa border. USACE and contractor crews were instructed to evacuate their staff and equipment from the immediate area. This area was reported as an area of a concern over the last several days. Preliminary analysis suggests that the area is mostly agricultural with approximately six farmsteads in the immediate area of the partial levee breach. Local residents have been sandbagging around the City of Hamburg for several days in anticipation of the levee's failure. It is unknown the level of protection the sandbagging will provide. Civil Air Patrol Assets were redirected to the area of the breach and the Region VII RWC is working with GIS staff to determine demographics in this area. USACE crews are currently laying out a temporary levee alignment to protect critical public infrastructure in Hamburg, IA. Survey crews are on site getting elevation data to include I-29. Although the levee is a partial breach, the damaged areas are likely to develop a full breach as water levels continue to rise. The Iowa National Guard dropped large 1-ton sandbags into the breach area this afternoon and early evening. NWD and HQUSACE will discuss this CCIR more at 0900 EST on 06 June 2011.

North Dakota - Garrison, - All damaged areas on the steeper portion of the spillway slab have been repaired. Spillway will be back in use by June 6. Bismarck- Construction is substantially complete. Mandan- Construction is substantially complete. Williston- The conditions remain relatively stable. Fort Yates- Standing Rock Sioux Tribe (SRST) Second Contract - Causeway No changes

South Dakota: Fort Randall- The Omaha District drill crew is in route to the Fort Randall Project to install 6 piezometers; 3 on each side of the spillway. Geotech engineers determined that we could possibly use the west side of the spillway (currently closed due to erosion) if we installed the piezometers. After the piezometers are installed, the project will run a test to see if various gate openings impact the amount of water getting behind the wall.

Big Ben- Spillway gates were opened one additional foot as scheduled at 0800. All eight gates are now open 5 feet. We are currently releasing 43,860 cfs thru the spillway, 85,000 cfs thru the powerhouse for a total release at Big Bend of 128,860 cfs. (Based on tables). USGS was on site last night taking flow measurements. We are now seeing whirlpools forming on the upstream side of the spillway gates. (See Attached Photo). Public visitation is high, watching the releases at the spillway.

Planned releases at the 6 dams based on the forecast posted on the web this afternoon did not change from yesterday's forecast. The bottom line is, the sooner we can reach these maximum release rates, the less risk there is that we'll have to go higher; once we have evacuated some storage in the reservoir system, we will have more flexibility to respond to changing conditions.

Fort Peck -Releases today 40,000 cfs tomorrow, 45,000 cfs on Monday and 50,000 cfs peak by Tuesday.

Garrison -Holding 115,000 cfs today, increasing to 120,000 cfs on Monday, and increasing to 130,000 cfs on Tuesday with an eventual peak of 150,000 cfs no later than mid-June. Increases of 10,000 cfs or more will generally be made in two steps.

Oahe -Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.

Big Bend - Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.

Fort Randall - 117,000 cfs today, going to 127,000 cfs tomorrow in two steps, and then 138,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.

Gavins Point - 110,000 cfs today, going to 120,000 cfs tomorrow in two steps, and then approximately 10,000 cfs per day until release reach 140,000 cfs on Wednesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.

Columbia River Basin Update as of 2200 Pacific Time 04 June 2011:

Columbia River Basin is a much different basin than the Missouri River Basin, attached is a presentation to show the Basin and its current status.

NWD Water Management as well as our three western districts (NWS, NWP, and NWW) are monitoring conditions closely.

We want to share the links below in order to "paint the picture" of the region Useful Links:

For current reservoir levels, inflows and releases, visit the Missouri River Basin Water Management website at: <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>

Updated Daily: Details on the reservoirs in the daily bulletin at <http://www.nwd-mr.usace.army.mil/rcc/reports/showrep.cgi?4BULL0MR1>

Release data for all six reservoirs through mid-July is available at: <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>

This ftp site contains an excellent pictorial presentation of the Missouri River Basin system. Please take time to review, as it will help you to better understand the situation and the system we manage. [ftp://ftp.usace.army.mil/usace/nwd/New%20Folder%20\(2\)/](ftp://ftp.usace.army.mil/usace/nwd/New%20Folder%20(2)/)

The NWD Common Operating Picture. (Contains National Levy Data base, 1-5 day QPF, Dams, Emergency Management layers etc.)
<https://egis.nwd.usace.army.mil/pls/apex/f?p=200:1:1908605002954834>

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: bill mitzel [dcmag@orbitcom.biz]
Sent: Monday, June 06, 2011 9:14 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... I will about 15 questions to you shortly here, and you can pick the time for the phone discussion. Thanks.

Bill Mitzel

On Jun 3, 2011, at 12:55 PM, Farhat, Jody S NWD02 wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Bill,
> Thanks for clarifying; I was hoping that was a typo. Appreciate your
> efforts to get accurate information out to your readers. My phone
> information is below, but it would be best for us to schedule a time
> in advance since I'm frequently tied up in other calls and meetings.

>
> Thanks,
> Jody
>
> Jody Farhat, P.E.
> Chief, Missouri River Basin Water Management
>
> jody.s.farhat@usace.army.mil
> Office: 402-996-3840
>
>

> -----Original Message-----

> From: bill mitzel [<mailto:dcmag@orbitcom.biz>]
> Sent: Friday, June 03, 2011 12:44 PM
> To: Farhat, Jody S NWD02
> Subject: Re: Interview Request (UNCLASSIFIED)

>
> Jody... thanks. I'll prepare a list of general questions I'll want to
> ask, then we can go from there. I hope to have those questions to you
> yet this afternoon or tonight, Saturday for sure and will touch bases
> with you on Monday. (That one sentence should have read "I'm NOT
> looking to launch an attack on the Corps.....). Thanks. Please give me
> a phone number to reach you on Monday.
> Bill

>
> On Jun 3, 2011, at 11:22 AM, Farhat, Jody S NWD02 wrote:

>> Classification: UNCLASSIFIED
>> Caveats: NONE
>>

>> Bill, I'd be happy to help. A list of initial questions via email
>> would be best to start out with since it may take a variety of
>> different folks to answer them. Then we could follow up with a taped
>> interview if you'd like to fill in any gaps.

>>
>> Jody
>>
>>
>> -----Original Message-----
>> From: bill mitzel [<mailto:dcmag@orbitcom.biz>]
>> Sent: Friday, June 03, 2011 10:39 AM
>> To: Farhat, Jody S NWD02
>> Subject: Interview Request
>>
>> Jody... I'm Bill Mitzel, editor/publisher of Dakota Country magazine
>> out of Bismarck, ND. We're a monthly hunting/fishing magazine, as you
>> probably know. We publish monthly news summaries by the department
>> each month.
>> I'd like to do an interview with you, or someone else deemed
>> appropriate, for our upcoming July issue. It could be a taped phone
>> interview (preferred) or I could send a list of questions by email.
>> What I'm interested in is a feature that entails what's happening
>> here with the system, why it's happening, how did it get this bad.
>> Frankly Jody, as you know, there are a huge number of angry people
>> about this all. I'm looking to launch and attack on the Corps with
>> this, just needing some answers that people are asking. There will be
>> some tough questions. Wondering if you can help. Thanks very much.
>> Bill Mitzel
>> Dakota Country magazine
>>
>>
>> Classification: UNCLASSIFIED
>> Caveats: NONE
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> Classification: UNCLASSIFIED
> Caveats: NONE
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>

[REDACTED] NWO

From: [REDACTED]
Sent: Monday, June 06, 2011 9:04 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED]; [REDACTED]
Subject: Questions about flows etc

Jody, On several occasions, questions from flood plain interests are: ---1--- What is the combined design storm water runoff storage recurrence interval for the annual flood control and exclusive pools in the main stem reservoir system as a whole; and, for each individual dam reservoir system designed for storage of flood control waters? ---2--- For flood flows still within the river banks and the levees, what is the approximate depth of water for each 10,000 cfs of discharge at Sioux City, Omaha, St. Joseph, Kansas City and Hermann?
Thank you. JBG, PE

Joseph B. Gibbs, PE, [REDACTED]-----
FAX [REDACTED] 656-----E-Mail: [REDACTED]

NWO

Subject: Live Radio Show - South Dakota Public Radio (UNCLASSIFIED)
Location: Col. Ruch's Office

Start: Mon 6/6/2011 12:00 PM
End: Mon 6/6/2011 12:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Farmer, Monique L NWO
Required Attendees: Ruch, Robert J COL NWO; Farhat, Jody S NWD02; Bertino, John J Jr NWO
Optional Attendees: Thomas, Kimberly S NWO

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Paul Guggenheimer of SD Public Radio wants the Corps to go on right after the Governor of South Dakota on Monday. He wants to talk about how the flows are being handled, how we got to this point and the structural integrity of dams and levees along the Missouri River. The interview will last 10 minutes and our call-in number is 800-524-3604.

If we'd like, we can call in early and listen to the governor's segment, only he will be on from 11 a.m. to noon. He gave us the option to call in and listen at our convenience.

V r,

Monique

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 8:40 AM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02
Subject: Mainstem data for NWO sitrep 6/6/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

Fort Peck Dam (MT)

6/5 Pool Elev: 2250.4 ft-msl
24-hr change: 0.1'
6/5 Ave Inflow: 52,000 cfs
6/5 Ave Release: 36,900 cfs
6/6 Scheduled Release: 45,000 cfs

Garrison Dam (ND)

6/5 Pool Elev: 1853.5 ft-msl
24-hr change: -0.1'
6/5 Ave Inflow: 100,000 cfs
6/5 Ave Release: 115,300 cfs
6/6 Scheduled Release: 120,000 cfs

Oahe Dam (SD)

6/5 Pool Elev: 1619.2 ft-msl
24-hr change: 0.0'
6/5 Ave Inflow: 133,000 cfs

6/5 Ave Release: 126,800 cfs

6/6 Scheduled Release: 140,000 cfs

Big Bend Dam (SD)

6/5 Pool Elev: 1419.3 ft-msl

24-hr change: -0.1'

6/5 Ave Inflow: 116,000 cfs

6/5 Ave Release: 114,200 cfs

6/6 Scheduled Release: 140,000 cfs

Fort Randall Dam (SD)

6/5 Pool Elev: 1360.5 ft-msl

24-hr change: 0.1'

6/5 Ave Inflow: 120,000 cfs

6/5 Ave Release: 112,400 cfs

6/6 Scheduled Release: 127,000 cfs

Gavins Point Dam (NE-SD)

6/5 Pool Elev: 1206.3 ft-msl

24-hr change: 0.2'

6/5 Ave Inflow: 104,000 cfs

6/5 Ave Release: 101,900 cfs

6/6 Scheduled Release: 120,000 cfs

Missouri River Basin Water Management Division Northwestern Division Corps of Engineers

@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 8:34 AM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: FW: Yellowtail releases to 15,000 cfs (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYI. Something to consider.

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]
[REDACTED] (fax)

-----Original Message-----

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 8:28 AM
To: [REDACTED] NWD02
Subject: RE: Yellowtail releases to 15,000 cfs (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Not with these higher releases. The current BOR plan shows on Jul 5 the pool of 4645.6 ft-msl (30% of the flood pool occupied). They then plan to fill the flood pool near 4650 ft-msl through July.

We think much of this forecast may be driven by uncertainty of what kind of inflows they may see, and they'd rather be conservative.

This current plan does not provide maximum benefits to Garrison. And adjusting releases during late June could store another 100 kaf, but would put Yellowtail's afterbay dam at risk of breaching if more water than expected flows into Yellowtail.

If want to discuss any changes to this plan now let us know. Otherwise we can wait until later in the month and see how things look.

[REDACTED]
-----Original Message-----

From: [REDACTED] NWD02
Sent: Monday, June 06, 2011 7:49 AM
To: [REDACTED] NWO
Subject: RE: Yellowtail releases to 15,000 cfs (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks. I believe someone last week indicated that the USBR was projecting the pool to exceed 3657. Is that still the case?

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
[REDACTED]

[REDACTED] (fax)

-----Original Message-----

From: [REDACTED] NWO

Sent: Monday, June 06, 2011 7:15 AM

To: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02

Cc: [REDACTED] NWO

Subject: Yellowtail releases to 15,000 cfs (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

-----Original Message-----

From: Felchle, Timothy (Tim) H [<mailto:TFelchle@usbr.gov>]

Sent: Saturday, June 04, 2011 11:47 AM

To: Adams, Daniel A; Aycock, Gordon L; Balerio, Raymond S; BELLOWS@WAPA.GOV; [REDACTED] K NWO; Berkas, Wayne R; Bob Gibson; [REDACTED] NWO; Bricker, Kathryn J; Cannon, Brad A; Charles, James N.; Critelli, Daren F; Cyndy Beretta; Davies, Steven (Steve); dhaacke@gmail.com; Doug Greenwalt; Eckdahl, Ted S; Erger, Patrick J; Ferguson, Michael (Mike) R; [REDACTED] NWO; Heinje, Charles (Chuck); Holwegner, Paula; Hoskinson, Rockie L; HUMBER@WAPA.GOV; Stewart, James D; [REDACTED] NWO; Jensen, Alexander A; Case, Jerry; Jewell, Daniel (Dan) E; John Gierard; Jones, William (Bill) G; Julie Meyer; Seefus, Kathryn J NWO; Keith Meier; Ken Frazer; Klein, Perry F; Korkow, Kimberly (Kim) J; Moore, Laurie; Link, Carol L; Manni, Thomas (Tom) W; Marc Singer; Mark Smith; Maroncelli, Michael; Michael Mastrangelo; Mike Ruggles; Miller, Kirk A; Morgan, Timothy J; MTPreschedule@WAPA.GOV; Tim Vigil; Newman, Keith; NWS CR KRF; OTTO@WAPA.GOV; Pete Kinney; Pfaff, Beverly E; Phelps, Nora; RFELLIN@WAPA.GOV; Rich Bacon; Riddle, George; RPHILLIP@WAPA.GOV; Sawatzke, Thomas (Tom) G; SCHEID@WAPA.GOV; Steve Johnson; Steve Yekel; Swisse, Gary; Tauscher, Tom; Tim Vigil; Tonske, Irvin L; Yonts, Travis D NWO; UGPMARKETER@WAPA.GOV; White, Melvin K; Whiteman, Aroscott; Wilkerson, Kevin R; William Wilson
Subject: Operation Change @ Yellowtail

Gage Height on previous water release order is corrected as follows: 65.39 with 0.0 shift.

Based on the June water supply forecast, the following operation change is required at Yellowtail Dam & Powerplant to control reservoir storage and continue preparing for the spring snowmelt runoff. If you have any questions or concerns, please give me a call.

Tim H. Felchle

Supervisory Civil Engineer

Bureau of Reclamation

Montana Area Office

2900 4th Avenue North

Billings, MT 59107-0137

Phone: 406-247-7318

Mobile: 406-855-3918

FAX: 406-247-7348

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Monday, June 06, 2011 6:54 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] SWL
Subject: RE: Camera (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thank you Jody,

No worries, we are not using it now, they can use it as long as you need. Have a wonderful day.

[REDACTED]
Mil/Env IIS Program
[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 3:54 PM
To: [REDACTED] NWO
Cc: [REDACTED] SWL
Subject: Camera (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Nickie, I borrowed your camera and loaned it to a PAO specialist, James Woods, from Little Rock District who is here to help with the flood. He was headed out in the field and didn't have a camera. He is cc'd here, and has assured me he'll return the camera when his work is done.

If you have need of a camera in the near term, I'd be happy to loan you my personal one which is nearly identical to yours. Just let me know and I'll bring it in from home.

Sorry for the inconvenience and for not coordinating with you in advance.

Jody

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Sunday, June 05, 2011 10:17 PM
To: McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] WD02; Farhat, Jody S NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 5 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

Sir - The talking points I used in the stakeholder call tonight can be found on the first page of the attached file. The remainder of the document contains more general WM talking points that I've been using in response to questions lately, just better organized and more specific information.

Please feel free to distribute internally as you see fit.. Let me know if you have any questions.

Regards,
Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Saturday, June 04, 2011 5:37 PM
To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; McMahon, John R BG NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Blechinger, Erik T NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO
Subject: WM Talking Points for 4 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYSA

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
5 June 2011

Releases

- Each day we update the reservoir forecast with new rain and snow runoff information
- When changes to the inflow forecasts occur, which they often do, it may be necessary for us to make adjustments to the come-up schedules at the mainstem reservoirs to balance the impacts of changing conditions.
 - Also important to note is that changing conditions at any one of the mainstem dams may have a ripple effect on the other 5
- We will be updating our reservoir forecast daily and will be posting it on the web when it is complete, generally in the late afternoon. We encourage you to monitor the web site and participate in these daily calls to ensure you have the latest and best information available
- Important to note that any time a release change of 10,000 cfs or more is planned at one of the reservoirs, the releases may be stepped up incrementally throughout the day to avoid rapid changes in downstream river levels. If you have specific concerns or questions with the come-up schedule, please call our office.
- Planned releases at the 6 dams based on the forecast we posted on the web this afternoon did not change from yesterday's forecast. The releases are as follows:
 - Fort Peck –Releases today 40,000 cfs tomorrow, 45,000 cfs on Monday and 50,000 cfs peak by Tuesday.
 - Garrison –Holding 115,000 cfs today, increasing to 120,000 cfs on Monday, and increasing to 130,000 cfs on Tuesday with an eventual peak of 150,000 cfs no later than mid-June. Increases of 10,000 cfs or more will generally be made in two steps.
 - Oahe –Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.
 - Big Bend – Releases today 130,000, and then 10,000 cfs per day until releases reach 150,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps.
 - Fort Randall – 117,000 cfs today, going to 127,000 cfs tomorrow in two steps, and then 138,000 cfs on Tuesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.
 - Gavins Point – 110,000 cfs today, going to 120,000 cfs tomorrow in two steps, and then approximately 10,000 cfs per day until release reach 140,000 cfs on Wednesday. Each of the 10,000 cfs increases will be accomplished in two steps. Releases will eventually reach 150,000 cfs no later than mid June.
- The forecast is based on best available information at this time; actual releases are based on conditions on the ground, which are subject to change.
- Bottom line is, the sooner we can reach these maximum release rates, the less risk there is that we'll have to go higher; once we have evacuated some storage in the reservoir system, we will have more flexibility to respond to changing conditions

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between 1989 and 2004, analyzed the potential to provide additional flood control storage

by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.
 - Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.

- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997

Omaha District

Work: [REDACTED]

Cell: [REDACTED]

Email: [REDACTED][@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

ACE-IT@NWO - CEIT-PMO-IP

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Burke, Linda NWO

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 3:50 PM
To: Blechinger, Erik T NWO; Farhat, Jody S NWD02; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK
Cc: Anderson, G Witt NWD; **Hearn, James J NWD**
Subject: Press Conference

Team:

What do you think about hosting one of these to report out on the current status of each reservoir as we ramp up to 150K, how the levee system looks, where our concerns are, what the weather is looking like, rumor control, eTc? All followed by a Q&a--with Jody, You, me, COL Ruch, COL Hofmann? Is this too hard to arrange? Who would come? Would it be broadcast? 1 hour max. Start around 1600 Wed. Please advise. Thanks.

Vr/John McMahon

Burke, Linda F NWO

From: Bergman, Kellie K NWO
Sent: Tuesday, June 07, 2011 3:48 PM
To: Buckley, Ryan M NWO; Daggett, John E NWO; Clemetson, Doug J NWO; Farhat, Jody S
NWD02; Swenson, Michael A NWD02
Cc: 'Tom Gurss'; Remus, John I NWO; 'Julie Meyer'
Subject: Wolf Point and Culbertson forecast update (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

The Missouri Basin River Forecast Center has run a new forecast for these stations. As we heard in our 1300 weather briefing the area has received significant precipitation since 0700 today already exceeding the QPF in some areas. Both Culbertson and Wolf Point are off the end of their rating curves so stage values are estimated. The USGS will measure both gages tomorrow.

Best estimate for peak stages at this point are around 20 feet at Culbertson and around 16 feet at Wolf Point.

Kellie

-----Original Message-----

From: Bergman, Kellie K NWO
Sent: Tuesday, June 07, 2011 12:13 PM
To: Buckley, Ryan M NWO; Daggett, John E NWO; Clemetson, Doug J NWO
Cc: 'Tom Gurss'
Subject: Wolf Point and Culbertson forecasts (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Due to the rain in the Milk River basin the current forecast exceeds the earlier estimates at Wolf Point and Culbertson. This forecast includes QPF, rain that hasn't fallen yet. We are getting a measurement there tomorrow, right now the rating curves are being extended without supporting data so there is uncertainty there as well.

Current forecast:

Wolf Point (15.3 ft)
Culbertson (18.4 ft)

Kellie

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

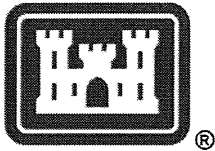
Burke, Linda F NWO

From: Quinn, Kevin R NWO
Sent: Tuesday, June 07, 2011 3:44 PM
To: Farhat, Jody S NWD02
Subject: (UNCLASSIFIED)
Attachments: NR-FortPeckincrease to55k 6-7-11.docx

Classification: UNCLASSIFIED
Caveats: NONE

JODY- Please review and revise as you wish--I will get it out as soon as you give it the green light.

Classification: UNCLASSIFIED
Caveats: NONE



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NEWS RELEASE

U.S. ARMY CORPS OF ENGINEERS

Release No: 060711-1

For Immediate Release: June 26, 2011

Contact: Joint Information Center (402) 996-3877

MRJIC@usace.army.mil

Corps to increase releases at Fort Peck

Omaha, Neb.—The U.S. Army Corps of Engineers will increase releases from Fort Peck reservoir from the planned 50,000 cubic feet per second to 55,000 cfs.

Omaha District Commander Col. Robert Ruch says the increase, slated for Friday, June 10, is due to continued high runoff into the reservoir this week, including rain over the reservoir in the last 24 hours.

"Inflows into the Garrison reservoir have been averaging a little below forecasted levels, so the releases at Fort Peck will be increased to better balance the remaining storage between Fort Peck and Garrison," says Jody Farhat, Chief of the Missouri River Water Management Office.

During flood response activities, the Corps will provide regular updates directly to the public via its Facebook (www.facebook.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476599x-551987>>) and Twitter accounts (www.twitter.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476598x-76656>>).

View daily and forecasted reservoir and river information on the Water Management section of the Northwestern Division homepage at: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476601x-506026>> .

Other links of interest:

· <http://www.nwo.usace.army.mil/html/op-e/flood.html>
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476600x-30692>>

· www.facebook.com/OmahaUSACE
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476599x-551987>>

· www.twitter.com/OmahaUSACE
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476598x-76656>>

· www.youtube.com/OmahaUSACE
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476597x-597952>>

U.S. Army Corps of Engineers – Omaha District 1616 Capitol Ave., Omaha, Neb. 68102

<http://www.nwo.usace.army.mil/>

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www.mraps.org
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476596x-122624>>

www.moriverrecovery.org
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476595x-643921>>

###

Burke, Linda F NWO

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 3:30 PM
To: Lindquist, Todd J NWO; Farhat, Jody S NWD02
Cc: Mcallister, Roy F, Jr NWO; Schenk, Kathryn M NWO; Mellema, Gregory NWO; Janis, Larry D NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We are trying to avoid too many changes to the page which is why we have general statements with no specific dates or times.

- Releases will be stepped up to 150,000 cfs by mid June.
- The spillway gates are being used to pass floodwaters.

-----Original Message-----

From: Lindquist, Todd J NWO
Sent: Tuesday, June 07, 2011 12:42 PM
To: Farhat, Jody S NWD02; Williamson, Eileen L NWO
Cc: Mcallister, Roy F, Jr NWO; Schenk, Kathryn M NWO; Mellema, Gregory NWO; Janis, Larry D NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen,
Please remove the second bullet and revise the third one to reflect the following.

At 4:00 pm today, we will have all 28 spillway gates open to pass flood waters.

Yet, another "record"...

Todd

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:40 PM
To: Williamson, Eileen L NWO
Cc: Lindquist, Todd J NWO; Mcallister, Roy F, Jr NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:36 PM

Cc: ~~Hollandsworth, Margaret A MW~~

Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)

* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)

* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

- * 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

- * 1853.4 ft msl
- * 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 97,000 cfs (6 Jun)
- * 100,000 cfs (5 Jun)

Daily Avg. Release

- * 118,300 cfs (6 Jun)
- * 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

- * 1619.2 ft msl
- * 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)
- * 133,000 cfs (5 Jun)

Daily Avg. Release

- * 137,600 cfs (6 Jun)
- * 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

- * 1620 ft msl

River Stage (Pierre)

- * 18.34 (0531 CDT 7 Jun)
- * Flood stage - 15 ft
- * 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)
9 (Lander, WY)
14 (Bismarck, ND)
4 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

From: Anderson, G Witt NWD
Sent: Friday, June 10, 2011 8:49 PM
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Cc: Tipton, Robert A Col NWD; Hofmann, Anthony J COL NWK; Ruch, Robert J COL NWO; Farhat, Jody S NWD02
Subject: Fw: Congressman Graves' Parkville Meeting (UNCLASSIFIED)

Our visit and tour with Cong Graves and Cong Jenkins for several hours later in the day had quite a different flavor - Graves not so negative; I imagine he was playing to his constituents. Tony did a great job answering several of the questions noted by John from the earlier meeting and Jud answered the tribs inundation issue.

One thing we can bet on is Graves will push for review of MM. I noted in the initial brief to him that the hydrology this year is a new data point which we will be looking at re MM. He locked on to that.

At several site visits including St Joseph, Elwood, Hall's levee, Atchison, the locals were appreciative of NWK work and assistance; water management operation questions were a theme.

The CG's OpEd piece should help if the media pick it up.

Witt

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Goodnight, Rexford G NWK
To: Anderson, G Witt NWD
Sent: Fri Jun 10 16:32:29 2011
Subject: Fw: Congressman Graves' Parkville Meeting (UNCLASSIFIED)

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED]
To: [REDACTED]; Hofmann, Anthony J COL NWK; [REDACTED]; Goodnight, Rexford G NWK; Combs, David L NWK; Iverson, Steven K NWK; Phillips, Amy L NWK; McCoy, Diana NWK; Shumate, Eric D NWK; Marx, Joshua A NWK
Sent: Fri Jun 10 14:41:52 2011
Subject: Congressman Graves' Parkville Meeting (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Congressman Graves held a meeting at Parkville at 2PM, meeting was pretty negative against the Corps. The following were the primary discussion points:

1. Congressman starting out the meeting: There has been flooding in 2007, 2008, 2010, and now and in each case the Corps has "missed their targets every time" and is missing the targets now.

2. Congressman characterized the Corps of Engineers as releasing too much water, not operating properly, and Congressman would ask why we can't lower the releases.

3. Citizens were asking why there can't be a levee at Parkville. Officials portrayed Missouri River Levee at L385 as taking since 1930's to construct. I advised Mayor Richardson (in private) after the meeting that we studied a levee / floodwall at Parkville after 1993 flood, and determined that it had VERY questionable technical feasibility, no economic feasibility, no financial (cost share) feasibility, and that it would devastate the aesthetics of downtown Parkville. City did not pursue a project for that reason. After the meeting in line with the general mood, Mayor took on a slightly questioning or even hostile tone toward me, so I of course departed the area.

4. A citizen claimed that they had the National Guard ready to go out and work on a levee, but the Corps was refusing to allow it. That issue got batted around the meeting quite a bit on how autonomous and hard to work with that the Corps was. Nobody ever said what levee or specified any factual circumstance.

5. Platte County asked for "tributary inundation maps". They told Congressman that Platte County asked the Corps for tributary inundation maps and that the Corps was not providing them. Then, Graves' LD Mr. Matusak called [REDACTED] asking for "inundation maps", did not specify "tributary", and then another staffer did same to [REDACTED] this just adding to misinformation. Truth is that we do not have the technical information or capability to provide broadly applied inundation maps on tribs. [REDACTED] explained that in a very well worded response email to Mr. Matusak.

6. Never once was mentioned the thousand of sandbags, sandbag machines, Port-a-dam from Rock Island, or the extensive technical support and proactive liaison provided by the Corps to Parkville.

In fairness, several County and City officials, Mayor Richardson, and multiple reporters in the room, all of who know me, nevertheless none of them called out my name or advised that I was there representing the Corps. For that I am eternally grateful to them!

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

From: Anderson, G Witt NWD
Sent: Friday, June 10, 2011 7:28 PM
To: [REDACTED] Farhat, Jody S NWD02
Cc: [REDACTED] McMahon, John R BG NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO
Subject: Re: North Dakota Legislative Assembly (UNCLASSIFIED)

Thanks, Jody got the assignment earlier today. Will coordinate it with appropriate folks.

We're working it here. Will coordinate it with appropriate folks.

Witt

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED]
To: Farhat, Jody S NWD02
Cc: [REDACTED] McMahon, John R BG NWD; Anderson, G Witt NWD; Tipton, Robert A Col NWD; Ruch, Robert J COL NWO
Sent: Fri Jun 10 17:03:27 2011
Subject: RE: North Dakota Legislative Assembly (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Jody,

In case Witt did not get this to you yet. Please prepare a response by next Tuesday and discuss with [REDACTED] on the document request. Since it is a state representative, Witt could sign it or send it up here.

[REDACTED]

[REDACTED]
[REDACTED] Regional Business
Northwestern Division, USACE
Phone: [REDACTED]
BB: [REDACTED]

-----Original Message-----

From: Tipton, Robert A Col NWD
Sent: Friday, June 10, 2011 4:19 PM
To: [REDACTED] Anderson, G Witt NWD
Cc: [REDACTED] McMahon, John R BG NWD
Subject: Re: North Dakota Legislative Assembly (UNCLASSIFIED)

[REDACTED] - I recommend we have Jody and [REDACTED] work this. Not sure if we need BG McMahon's signature or not - I can probably sign as acting if we think we need the Division signature vs. District.

I think we need to get a response out by Tuesday at the latest - preferably Monday. I don't think we have any documents that discuss holding back releases as we did not hold back releases at Gavin's Point.

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED]
To: Anderson, G Witt NWD
Cc: [REDACTED], Pamela [REDACTED] Tipton, Robert A Col NWD
Sent: Fri Jun 10 15:29:06 2011
Subject: FW: North Dakota Legislative Assembly (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Witt,

Are you going to handle this from your location or do you want me to coordinate it? COL Ruch was looking for a suspense from Division to move it from his plate to ours. I believe M1 will want to sign the response but not sure of his return.

Thoughts?

[REDACTED]
[REDACTED]
[REDACTED]
Northwestern Division, USACE
Phone: [REDACTED]
BB: [REDACTED]

-----Original Message-----

From: Ruch, Robert J COL NWO
Sent: Friday, June 10, 2011 3:03 PM
To: [REDACTED]
Subject: FW: North Dakota Legislative Assembly (UNCLASSIFIED)

As promised!

-----Original Message-----

From: Ruch, Robert J COL NWO
Sent: Friday, June 10, 2011 11:56 AM
To: McMahon, John R BG NWD
Cc: [REDACTED], [REDACTED], [REDACTED], [REDACTED] Blechinger, Erik T NWO; Farhat, Jody S NWD02; Anderson, G Witt NWD; [REDACTED], Thomas, Kimberly S NWO; [REDACTED], Kathryn M NWO; Austin Smith, Christina NWD
Subject: North Dakota Legislative Assembly (UNCLASSIFIED)

Sir,

Attached is a request for information from the ND Legislative Assembly addressed to me. Frankly, I think most of the questions are really RCC answers and are quite easily answered. Bullets 1,2,3,5 could be answered in very short order. I leave bullet 4 to the attorneys to advise on but I believe an official FOIA request is required. Either way we should begin to gather that information.

As these questions are really RCC related do you want the District to reply or the Division? I think a prompt reply by early next week is advisable.

V/R,

COL Bob Ruch
Commander
Omaha District, USACE
(402) 995-2001
<https://www.nwo.usace.army.mil/>

-----Original Message-----

From: [REDACTED]
Sent: Friday, June 10, 2011 10:48 AM
To: Ruch, Robert J COL NWO; Thomas, Kimberly S NWO; [REDACTED]
Cc: [REDACTED]
Subject: North Dakota Legislative Assembly (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir,

During the City update today Congressman Rick Berg presented me with the attached RFI regarding current Missouri River flooding. He wanted me to follow up on how long it would take to get a response to the RFI, I responded that I would contact you and provide a suspense. Also the Mayor of Bismarck turned over the facilitator responsibilities of the daily meeting to the Bismarck EOC Director. Therefore future USACE presence at the daily meeting is not required. However I did explain to the Director that we would be available if any questions or issues came about. Subject to your approval I will discontinue presenting at the City meeting and provide the City with daily input.

V/r

[REDACTED]
[REDACTED]
[REDACTED]
HQ-USACE Contingency Operations Directorate
441 G Street NW
Washington, DC 20314
[REDACTED] Blackberry
[REDACTED] Cell
[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Burke, Linda F NWO

I was listening in on the press call at 1800. You go through the talking points so that is why I asked.

Vanille

From: Farhat, Jody S NWD02

To: [REDACTED], Janelle W. [REDACTED]

Classification: UNCLASSIFIED

CONCLUSION

Jody

From: [REDACTED]

Sent: Friday, June 10, 2011 6:06 PM

Before I release anything I always ask first. Can I give this to the State EOC and FEMA?

Varadero

From: Farhat, Jody S NWD02

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt

Chemichewy, Surya V MAJ NWD; [REDACTED] Love, Raymond E MAJ NWD; [REDACTED] Lindquist, Todd J MAJ NWD

Wojewski, Matthew; Wu, May; Danielle M. [redacted]

[illegible]

Joe] D NWD02; Latka, Doug C NWD02; Hargrave, Rosemary C NWD02; Stamm, Kevin D NWD02; Bever,

Donald S. NAO; Dennis; Ann M. NAO

Sent: Fri Jun 10 17:41:35 2011

Classification: UNCLASSIFIED

1

FYSA

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 10:43 PM
To: McMahon, John R BG NWD; Blechinger, Erik T NWO; Farhat, Jody S NWD02; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK
Cc: [REDACTED] NWD
Subject: RE: Press Conference (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir,

While only a cc on this, my comment is that a press conference is a very complicated endeavor. Security (many of these up basin folks are packing), preparation, murder prep is a must. It should be tied to a specific important event on our part.

Just my thoughts from talking to our great experts.

[REDACTED]
[REDACTED]
Director Regional Business
Northwestern Division, USACE
Phone: ([REDACTED])
BB: ([REDACTED])

-----Original Message-----

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 1:50 PM
To: Blechinger, Erik T NWO; Farhat, Jody S NWD02; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: Press Conference

Team:

What do you think about hosting one of these to report out on the current status of each reservoir as we ramp up to 150K, how the levee system looks, where our concerns are, what the weather is looking like, rumor control, eTc? All followed by a Q&a--with Jody, You, me, COL Ruch, COL Hofmann? Is this too hard to arrange? Who would come? Would it be broadcast? 1 hour max. Start around 1600 Wed. Please advise. Thanks.

Vr/John McMahon

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 8:28 PM
To: Blechinger, Erik T NWO
Cc: [REDACTED] NWD; Farhat, Jody S NWD02
Subject: 2011 Release Schedule Talking Points (UNCLASSIFIED)
Attachments: 2011 Release Schedule TPs.docx

Classification: UNCLASSIFIED
Caveats: FOUO

Erik,

Here are the TPs you already reviewed on this subject, with a few minor tweaks by Jody. I figured I would cc Witt before we go final, final with this one since he had some good inputs for the Master Manual TPs. I will get those incorporated & have it republished for use tomorrow.

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR 503-808-3760 (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Attachment Classification: UNCLASSIFIED
Attachment Caveats: NONE

Classification: UNCLASSIFIED
Caveats: FOUO

2011 Release Schedule:

Releases from the Missouri River dams last fall and throughout the winter of 2010 were above normal. All flood waters from 2010 were released in time for the 2011 runoff season. 2010 was the third highest water year on record in the Missouri River Basin.

On 28 January 2011, the full flood capacity of the Missouri River reservoir system was available for this year's runoff season (reservoir was at desired 56.8 Million Acre Feet). At that point, and all the way through the first of May, we had no reason to think we needed to increase releases beyond normal levels.

The current need for high releases is due to a perfect storm: 1) plains snow; 2) extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in one month (300% of normal in May); and 3) additional mountain snowpack accumulation to record levels in May and a delayed melt.

The May 2011 runoff into the Missouri River Basin above Sioux City was 10.5 MAF – our normal May runoff based on historical records is only 3.3 MAF. To put this in some perspective, 10.5 MAF would be enough water to cover the entire state of Iowa in over 3 inches of water. This was the second highest single month of runoff since 1898. The only higher was in 1952 with 13.2 MAF in April.

Regulation of the reservoir system is in accordance with the Master Manual and it is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.

Answers to frequently asked 2011 Release Schedule Questions:

Why didn't you release more water earlier in the year?

Answer: At no time prior to the repeated rounds of heavy rain in the Upper Basin in May, resulting in record single-month inflows into our System, did we have reason to expect record releases. Immediately after this rainfall event we began incrementally stepping up our releases in a controlled manner, while still allowing people downstream to prepare for a record runoff water year.

Didn't you say you factor the weather forecast into your release schedule?

Answer: We do – every month we update our regulation forecast to reflect current and projected conditions. Unfortunately, no one had the crystal ball that predicted the record rains in a two week period in Montana.

How long will you continue at the projected 150,000 cfs release rate?

Answer: These peak releases will likely extend well into August. We need to maintain these high releases until the reservoirs are back down to a manageable level. The other guiding principle is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies both to our mainstem dams and all the levees downstream.

NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 8:03 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; Blechinger, Erik T NWO
Subject: FW: Corp River Level Rumor - 180,000? (UNCLASSIFIED)
Attachments: ***RIVER UPDATE***MLDDA***RIVER UPDATE***

Classification: UNCLASSIFIED
Caveats: NONE

FYI

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 7:53 PM
To: 'BAKER, RUSSELL J'
Cc: SPIRES, JANE M
Subject: RE: Corp River Level Rumor (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The latest three week reservoir release forecast is here. The maximum is 150,000 cfs. All the dams except Ft Peck will eventually be at 150,000cfs (Acutally Ft Randall will be 148,000). Ft Peck's maximum will be 55,000 cfs.

<http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>

Not sure where the 180,000 cfs comes from.

It is raining in Montana this evening. We shall see if that adds to Ft Peck or Garrison Dams very much tomorrow.

At the 4:00 WAP call and the 6:00 pm congressional, emergency management and state call nothing about 180,000 was mentioned. See attached from Tom Waters who provided minutes to the meeting.

John

From: BAKER, RUSSELL J [mailto:rjbaker@oppd.com]
Sent: Tuesday, June 07, 2011 7:33 PM
To: [REDACTED] NWD
Cc: SPIRES, JANE M
Subject: FW: Corp River Level Rumor
Importance: High

Hi [REDACTED], i am assuming it is an unsubstantiated rumor but I have to ask.

Thanks, Russ

-----Original Message-----

From: SCHMITZ, STEVEN T
Sent: Tuesday, June 07, 2011 06:59 PM Central Standard Time
To: ROTH, KENNETH A; KRIESER, GREG A; JOHANSEN, RONALD A; FOLEY, JAMES J
Cc: NISSEN, TIMOTHY J; SPIRES, JANE M; BAKER, RUSSELL J; O'NEAL, LEE D; SNOOK, DENNIS J
Subject: FW: Corp River Level Rumor

Can you help with this?

Sent with Good (www.good.com)

-----Original Message-----

From: NISSEN, TIMOTHY J
Sent: Tuesday, June 07, 2011 06:40 PM Central Standard Time
To: SCHMITZ, STEVEN T
Cc: O'NEAL, LEE D; DINWIDDIE, BLAINE R; MAYBERRY, RYAN J; DOGHMAN, MOHAMAD I; GODFREY, MICHAEL E
Subject: Corp River Level Rumor

Please have BCP investigate aggressively a rumor that the Corp may increase max release rate to 180kcfs. Gary Ruhl requested to Mike Godfrey we increase berm heights in the NC substation beyond the planned 928 feet. Standing by waiting for info from BCP on this issue. This is obviously a major question to resolve.

Timothy J. Nissen, P.E.

Division Manager

Substation Operations Division

Phone: 402-636-2412

Email: tnissen@oppd.com <<mailto:tnissen@oppd.com>>

Mail Stop: 6W/EP3

Omaha Public Power District

444 So. 16th St. Mall

Omaha, NE 68102-2247

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Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Jordano, James J LTC NWO
Sent: Tuesday, June 07, 2011 7:48 PM
To: Farhat, Jody S NWD02
Subject: Re: unusual email (UNCLASSIFIED)

Jody - incoherent and sent to several addressees...I have forwarded this to our security officer for analysis.

LTC James J. Jordano, P.E.
Deputy Commander
Omaha District, USACE
Office: (402) 995-2002
BB: (402) 350-3747
james.j.jordano@usace.army.mil

----- Original Message -----
From: Farhat, Jody S NWD02
To: Jordano, James J LTC NWO
Cc: [REDACTED] NWD; Blechinger, Erik T NWO; Tipton, Robert A Col NWD
Sent: Tue Jun 07 17:36:22 2011
Subject: unusual email (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - I just received this email. I don't know what it means, if it's threatening, or if it was even intended for me, but it is very strange.

Jody

-----Original Message-----
From: dewayne twelve-dram [<mailto:dewaynetwelve-dram@supportmail.com>]
Sent: Tuesday, June 07, 2011 7:28 PM
To: Farhat, Jody S NWD02; jody.s.schmitz@mvr02.usace.army.mil; jody.s1@insightbb.com; jody.s@earthlink.net; jody.s@worldnet.att.net
Subject: rst and foremost is that it doesn't matter what words they say, but what is fe

twelve-dram s to say them. she said she knew she was channeling as she could feel her crown chakra opening, but that now that she thought about it, there was also something different about the energy. my intuit <http://is.gd/t7ham4>

NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 7:39 PM
To: Farhat, Jody S NWD02
Subject: RE: unusual email (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Wow

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 5:36 PM
To: Jordano, James J LTC NWO
Cc: [REDACTED] NWD; Blechinger, Erik T NWO; Tipton, Robert A Col NWD
Subject: unusual email (UNCLASSIFIED)

Classification: UNCLASSIFIED
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NWO

From: Blair, Amy E NWK
Sent: Tuesday, June 07, 2011 7:33 PM
To: Farhat, Jody S NWD02
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks, Jody! I have a feeling he is trying to get toward something bigger, so I concur (especially because of the language insert he discussed last week).

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 7:31 PM
To: Blair, Amy E NWK; [REDACTED] NWK; Blechinger, Erik T NWO
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Let's wait and see what he asks in his more detailed question.

But FYI, records of previous floods are available from the USGS. Since the system was built, floods of this magnitude have been eliminated from the upper basin until this year. Downstream locations have continued to endure some flooding, though at a lower level and lower frequency than prior to the construction of the reservoir system. In addition, the ability of the system to reduce flood risk decreases the further downstream you go.

An answer like that may satisfy his request.

Jody

-----Original Message-----

From: Blair, Amy E NWK
Sent: Monday, June 06, 2011 6:58 PM
To: Farhat, Jody S NWD02; [REDACTED] NWK; Blechinger, Erik T NWO
Subject: FW: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Is this something we have a record of? My guess is that he was not on the call this evening to hear discussions about comparison of floods and origins. You can see where he is going with this line of thought.

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:55 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases (UNCLASSIFIED)

I will send a more detailed question later this week, but basically how many times has locations north of gavins point flooded vs locations south?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:52 PM
To: Matousek, Mike
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you be a little bit more specific as to what you mean?

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:51 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases

Thanks amy. Does the corps have statistics on upper river flooding vs lower river flooding?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:31 PM
To: Matousek, Mike
Cc: [REDACTED] NWK <[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)>
Subject: Missouri River Reservoir Releases

Mike, I am not sure if you are participating in the CODEL calls at 6 pm CDT, but on the call tonight someone asked to what degree we are operating for fish and wildlife. Jodi Farhat of RCC stated that since mid-August 2010 all releases have been based solely on flood control.

I thought this piece of info would be good for you to have in mind.

Amy E. Blair
USACE-Kansas City District
816.728.3651

Message sent via my BlackBerry Wireless Device

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

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Sent: Tuesday, June 07, 2011 7:28 PM
To: Farhat, Jody S NWD02; [REDACTED]@mvr02.usace.army.mil; jody.s1@insightbb.com;
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chakra opening, but that now that she thought about it, there was also something different
about the energy. my intuit <http://is.gd/t7ham4>

NWO

From: Fredlund, Diana J NWP
Sent: Tuesday, June 07, 2011 6:52 PM
To: Farhat, Jody S NWD02
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thank you. I was planning to use them for a news release from here but didn't need to once Kevin's was sent out. They will be useful for media though.

Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 5:49 PM
To: Farmer, Monique L NWO; Fredlund, Diana J NWP
Cc: Quinn, Kevin R NWO
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Diana - here are my talking points, I only speak from the first page; the remaining pages are my list of talking points. The Omaha District has already issued a press release regarding the change in Fort Peck releases. Kevin Quinn or Monique can provide you a copy.

Thanks, Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 6:32 PM
To: Fredlund, Diana J NWP
Cc: Farhat, Jody S NWD02
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

She did not provide them yet. All I have is Kim's. Coming...

-----Original Message-----

From: Fredlund, Diana J NWP

Sent: Tuesday, June 07, 2011 5:21 PM
To: Farmer, Monique L NWO
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Can you get me a copy of Jody's talking points? I'm preparing a news release for distribution after the call tonight and would like to include some of the same info.

Thanks.
Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
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Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:43 PM
To: Fredlund, Diana J NWP
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYI

-----Original Message-----

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] J NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] M NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: Re: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Roger. Thanks, Jody. Keep up the great work!
Vr/John McMahon

----- Original Message -----

From: Farhat, Jody S NWD02
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; Leighow, John K NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;

[REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO;
[REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] Jr NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02
Sent: Tue Jun 07 12:30:40 2011
Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:13 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]
John K NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO;
[REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] C NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:51 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]
[REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO;
[REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

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Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

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To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
[REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik I
NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen
L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED]
NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED]
[REDACTED] MAJ NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO;
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02;
[REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 7 June stakeholder call (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 7 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

Sorry these continue to be late. I will try to get them distributed prior to the call in the future.

Jody

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
7 June 2011

This afternoon we posted an updated reservoir forecast on our website which shows a slight change in our release schedule from yesterday. The current forecast indicates that the peak release from Fort Peck Dam in Montana will increase from the planned 50,000 cubic feet per second to 55,000 cfs.

The increase, slated for Friday, June 10, is due to continued high runoff into the reservoir this week, including rain directly over the reservoir in the last 24 hours.

Inflows into Fort Peck have been averaging above forecasted levels while inflows to the Garrison reservoir have been averaging slightly below forecasted levels. As a result, releases at Fort Peck will be increased to better balance the flood storage between Fort Peck and Garrison.

The Omaha District is currently in the process of assessing the likely impacts of the increase on communities downstream of Fort Peck Dam. This change in Fort Peck releases is not expected to impact the planned peak releases of 150,000 cfs at the other five mainstem dams.

Planned releases at the 6 dams based on the forecast we posted on the web this afternoon are as follows:

- Fort Peck –Releases today 50,000 cfs, increasing to 55,000 cfs on Friday.
- Garrison –130,000 cfs today, holding at that level tomorrow and Thursday, then gradually stepping up to 150,000 cfs by late next week.
- Oahe and Big Bend –Releases today reached the anticipated peak level of 150,000 cfs.
- Fort Randall – 137,000 cfs today, holding at that rate tomorrow, then gradually stepping up to the peak release of approximately 148,000 cfs by the middle of next week.
- Gavins Point – 130,000 cfs today, going to 140,000 cfs tomorrow, then gradually stepping up to the peak release of 150,000 cfs by the middle of next week.

We remind you that our updated forecast will be posted on the web each afternoon.

The forecast is based on best available information at this time; actual releases are based on conditions on the ground and are subject to change.

Peak releases are expected to continue well into August.

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between 1989 and 2004, analyzed the potential to provide additional flood control storage

by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.
 - Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.

- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997
- Master Manual: We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

- Duration: We are also getting many questions regarding the duration of the high flows. These peak releases will likely extend well into August. Our reservoir forecast posted on the web shows Fort Peck still in the surcharge pool, and Garrison and Oahe still in their exclusive flood control pools on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies to our mainstem dams as well as impacted communities, infrastructure and flood risk mitigation projects downstream of the dams. Over the next several days we will be looking at several scenarios for evacuating the flood water stored in the mainstem reservoir system and will provide better estimates when they become available.

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 6:32 PM
To: Fredlund, Diana J NWP
Cc: Farhat, Jody S NWD02
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

She did not provide them yet. All I have is Kim's. Coming...

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Sent: Tuesday, June 07, 2011 5:21 PM
To: Farmer, Monique L NWO
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

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Thanks.
Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
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To learn more about our flood response, visit our website at www.nwo.usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:43 PM
To: Fredlund, Diana J NWP
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYI

-----Original Message-----

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; Leighow, John K NWD; [REDACTED] J NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED]

[REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO;
[REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Subject: Re: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Roger. Thanks, Jody. Keep up the great work!

Vr/John McMahon

----- Original Message -----

From: Farhat, Jody S NWD02

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]
[REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] M NWD02; [REDACTED] NWD; [REDACTED] NWO;
[REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Sent: Tue Jun 07 12:30:40 2011

Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Monday, June 06, 2011 7:13 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; Leighow,
[REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO;
[REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 6:21 PM
To: Blechinger, Erik T NWO; Farhat, Jody S NWD02; [REDACTED] NWD
Subject: Fw: Briefing for Subcommittee Staff - House Energy and Water (UNCLASSIFIED)
Attachments: S1_brief for Missouri River System v8.pptx

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: [REDACTED] HQ02
To: [REDACTED] HQ02; [REDACTED] A HQ02; [REDACTED] NWD; Tipton, Robert A Col NWD
Cc: [REDACTED] NWO
Sent: Tue Jun 07 15:30:03 2011
Subject: RE: Briefing for Subcommittee Staff - House Energy and Water (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

For your convenience - it is attached.

v/r,
[REDACTED]

[REDACTED]
Executive Officer
Directorate, Contingency Operations
[REDACTED] desk
[REDACTED] BB
[REDACTED] Fax
[REDACTED] [\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)
[REDACTED] [\[REDACTED\]@usace.army.smil.mil](mailto:[REDACTED]@usace.army.smil.mil)

-----Original Message-----

From: [REDACTED] HQ02
Sent: Tuesday, June 07, 2011 6:27 PM
To: [REDACTED] HQ02; [REDACTED] NWD; Tipton, Robert A Col NWD
Cc: [REDACTED] A NWO; [REDACTED] HQ02
Subject: Re: Briefing for Subcommittee Staff - House Energy and Water (UNCLASSIFIED)

Team, rather than create new slides for the Missouri river basin, , Pls see the brief we used yesterday to brief Secr DHS (Jen its in the email I just sent DCG cc you). [REDACTED] can resend if you all don't have. Best, [REDACTED]

Best, kd-a

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[REDACTED]
USACE

Director, Contingency Op and Homeland Security
(202) 374-7245 cell

----- Original Message -----

From: [REDACTED] HQ02
To: [REDACTED] NWD; Tipton, Robert A Col NWD; [REDACTED] HQ02
Cc: [REDACTED] NWO; [REDACTED] HQ02
Sent: Tue Jun 07 17:04:20 2011
Subject: FW: Briefing for Subcommittee Staff - House Energy and Water (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hi [REDACTED] - Mark Mazzanti can do the \$\$ part tomorrow afternoon...anytime after 1300

I am wondering if potentially we could do this by phone call with NWD doing a briefing...what do you think?

Witt/COL Tipton - would someone on your staff have about 30 minutes tomorrow afternoon if we set up a conference call in line to go over the flooding? You could send slides and talk from those?

If not, COL Smith, are you available if necessary?

[REDACTED]
Chief, Future Directions Branch/Civil Works
[REDACTED] (desk)
[REDACTED] (cell)
[REDACTED] (fax)

-----Original Message-----

From: [REDACTED] HQ02
Sent: Tuesday, June 07, 2011 4:38 PM
To: [REDACTED] HQ02; [REDACTED] MVD
Cc: [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED]
H HQ02
Subject: Briefing for Subcommittee Staff - House Energy and Water (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]k:

Taunja/Angie would like to have a briefing tomorrow on the flooding situation - Nationwide...what we are currently doing in all basins, etc. She then would like us to include information on funding requirements (what we know), and our path forward...assume funding, plans for repairs, etc. (I'm sure Birds Point New Madrid will come up)

Anytime tomorrow works for her, or before noon on Thursday as a backup.

I will not be able to support tomorrow likely because of other meetings on the Hill, but I will send Glen or Debra.

Please let me know how you would like to approach this...who should brief, etc.

[REDACTED]
Chief, Future Directions Branch/Civil Works

[REDACTED] (desk)

[REDACTED] (cell)

[REDACTED] (fax)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

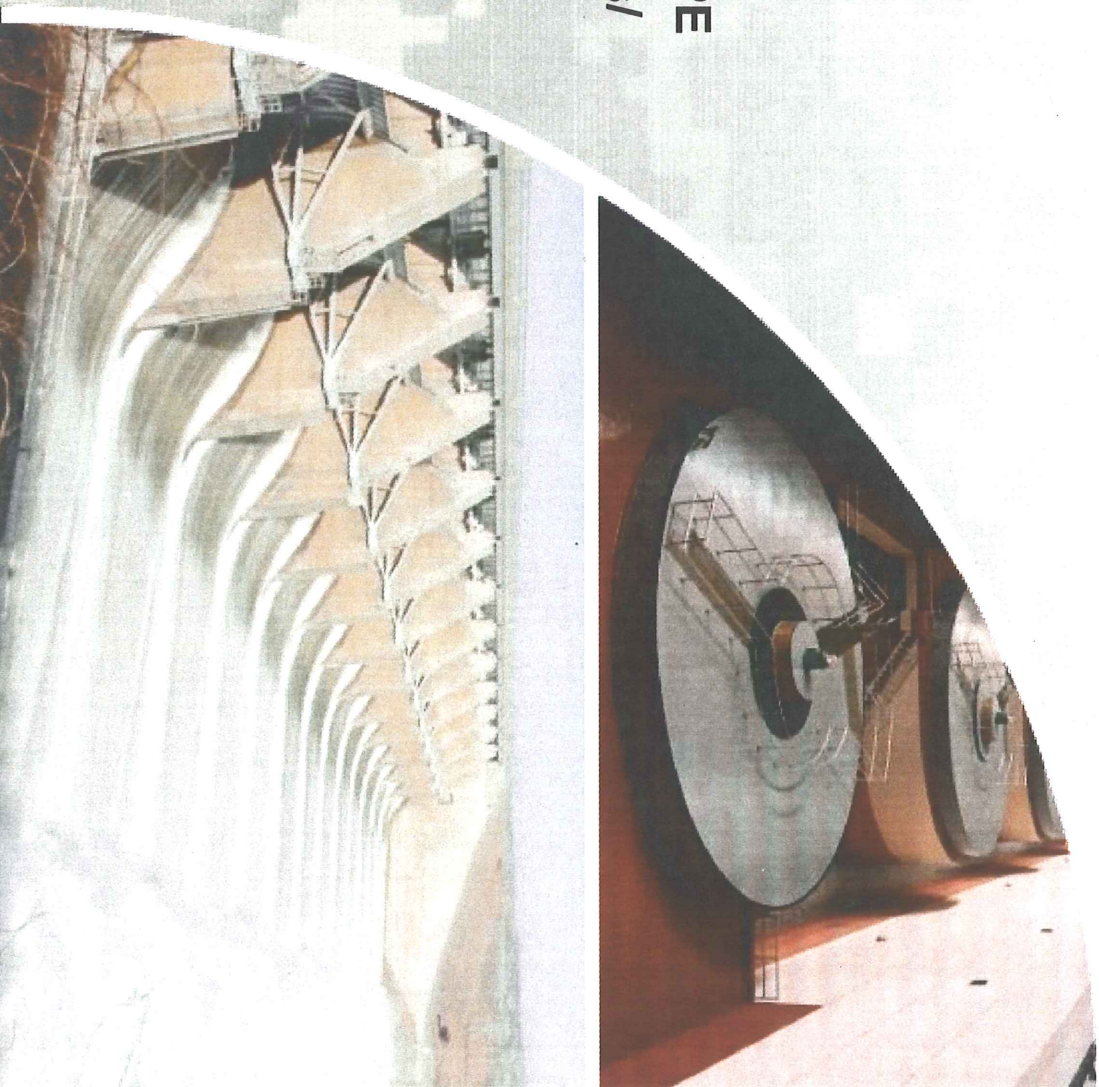
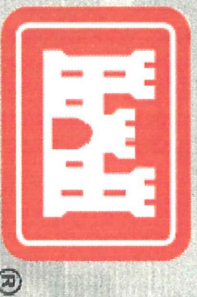
Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Update on Missouri River Basin Flooding 6 June 2011

**Ms. Karen Durham-Aguilera, SES, PE
Director of Contingency Operations/
Office of Homeland Security
US Army Corps of Engineers**



Agenda

- Update on Mississippi River Valley Flooding
 - Missouri River Basin
 - ▶ Overview
 - ▶ Current Situation
 - ▶ Potential impacts of predicted water levels
- Historical Context
- Questions



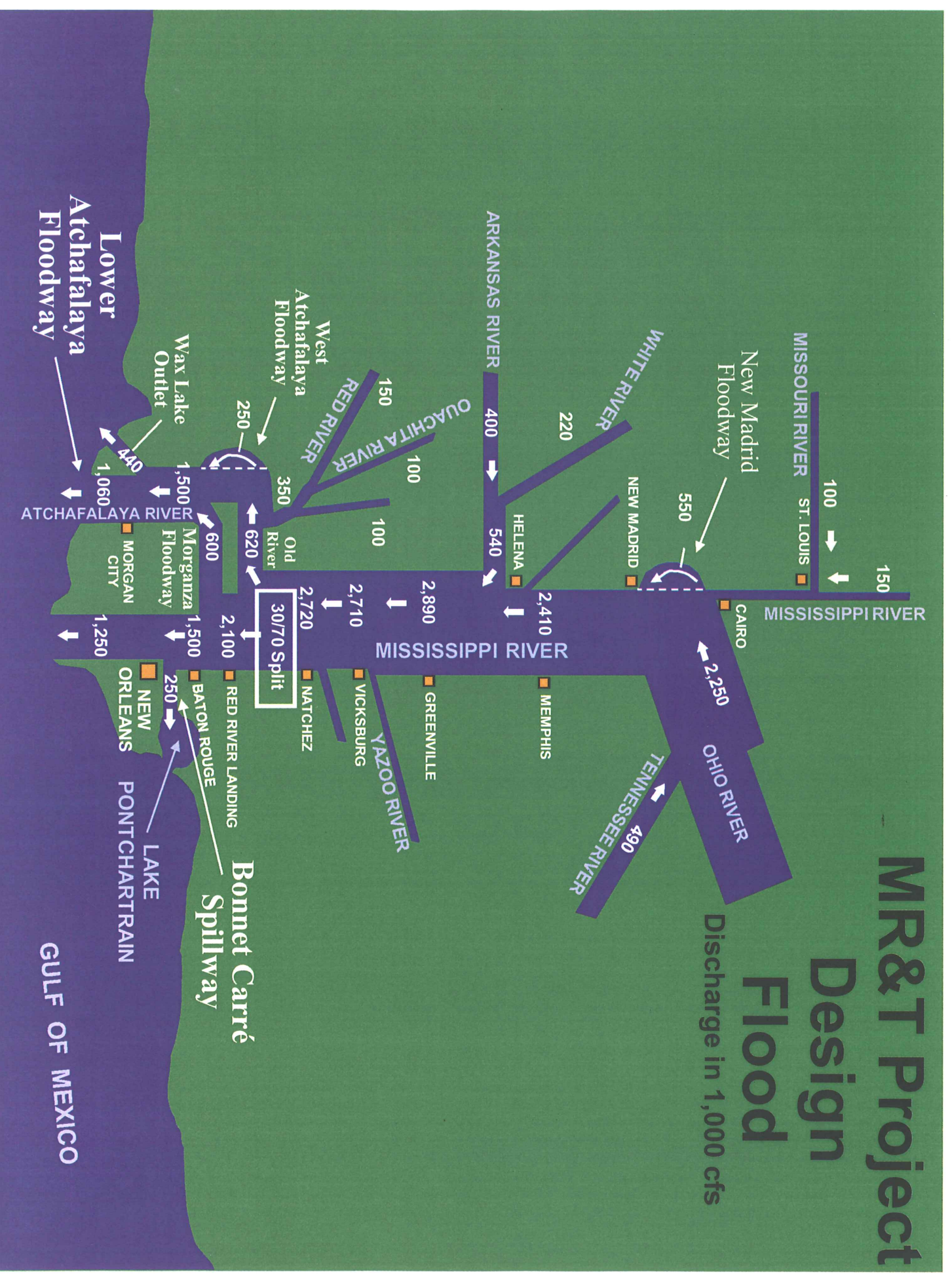
Mississippi River Valley Flooding Update

- Estimate Birds Point New Madrid Floodway Upper Crevasse Inflows will Cease o/a 9-11 June 2011
- Morganza Floodway will close o/a 7 June 2011
- Bonnet Carre Spillway projected to remain open through the end of the month (based on current flow rates and conditions along the MR&T system).



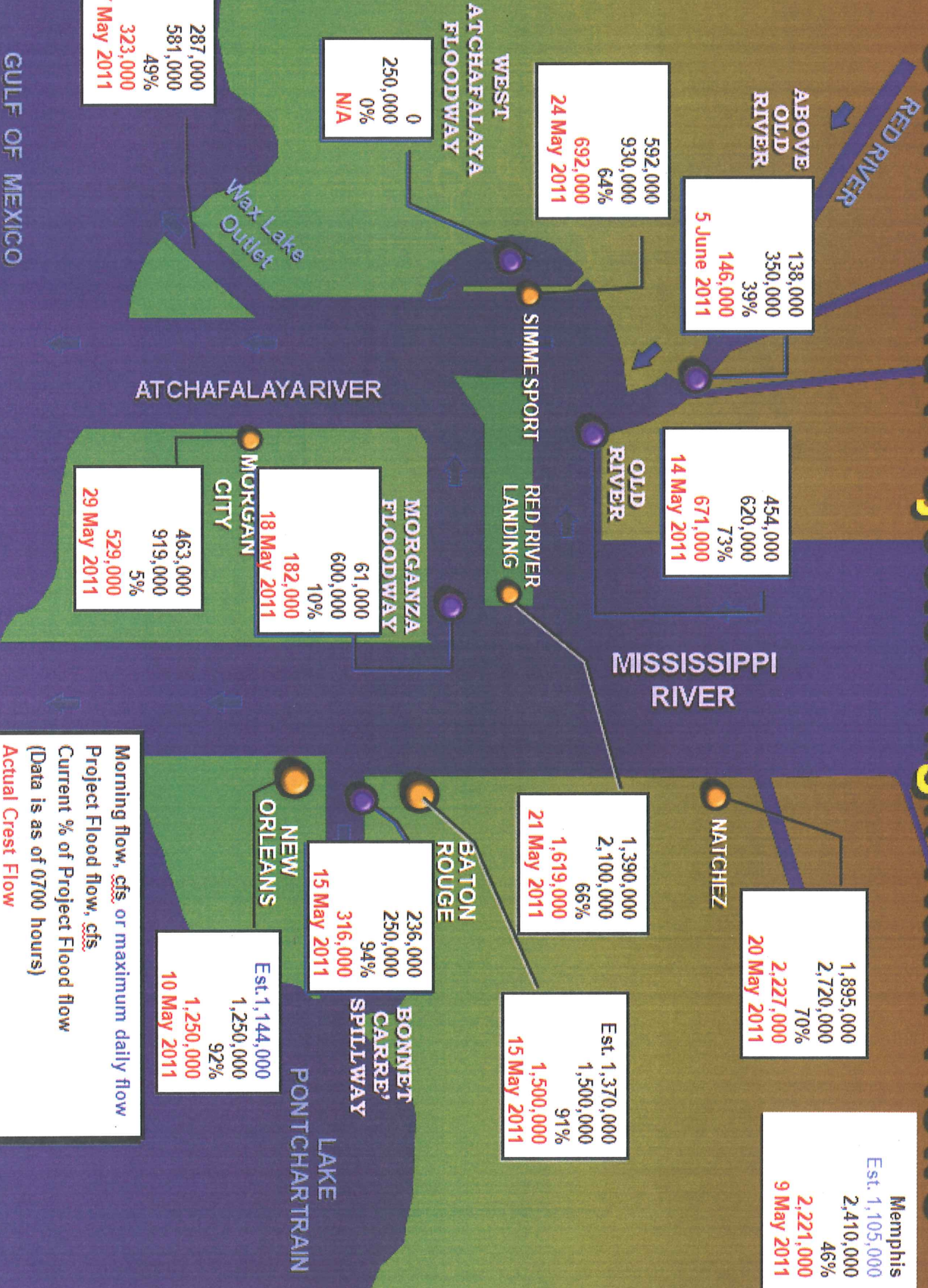
MR&T Project Design Flood

Discharge in 1,000 cfs



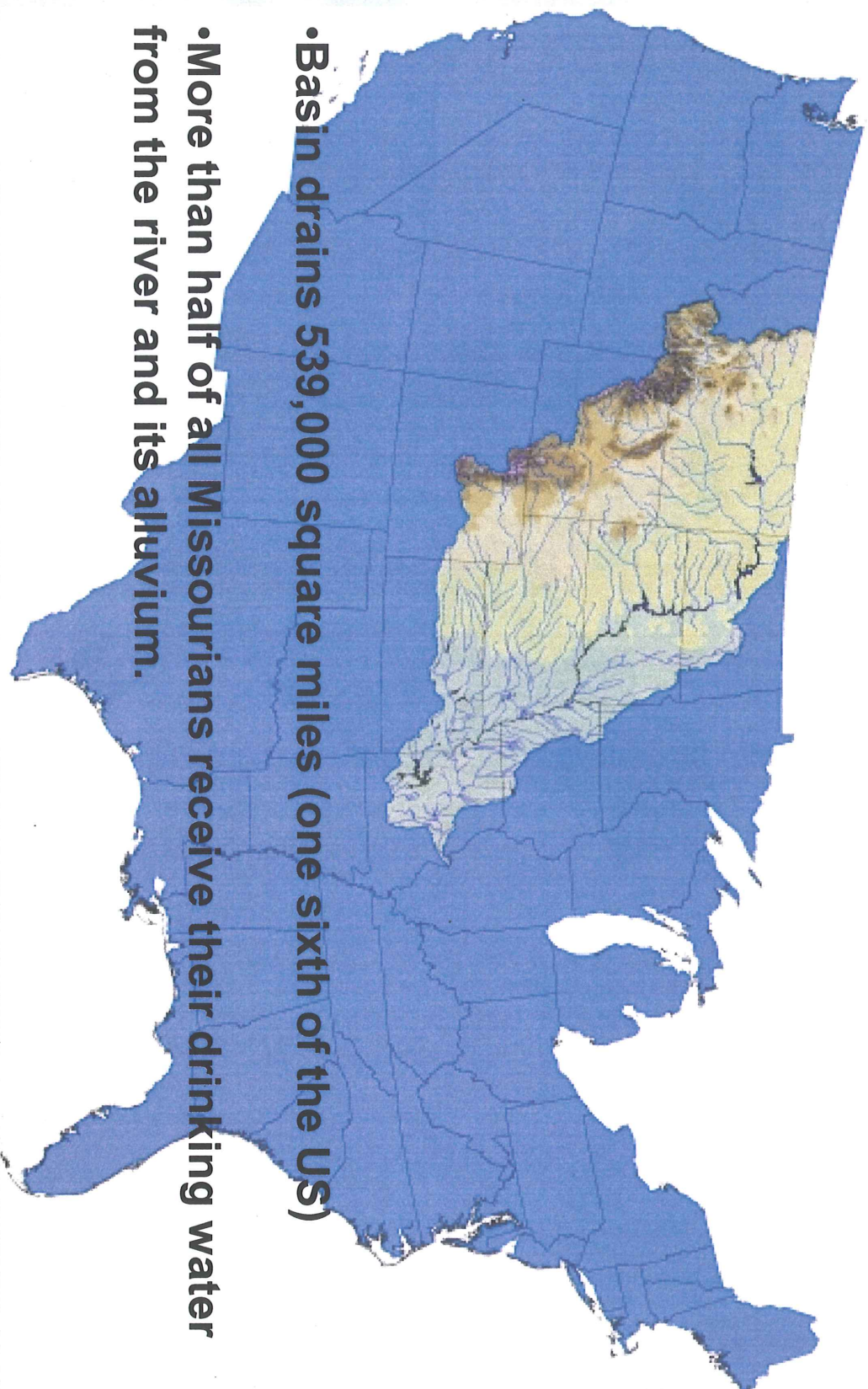
Current and Projected High Water Flows

GULF OF MEXICO



Morning flow, cfs, or maximum daily flow
 Project Flood flow, cfs
 Current % of Project Flood flow
 (Data is as of 0700 hours)
 Actual Crest Flow
 Actual Crest Date

Missouri River Basin Overview



- Basin drains 539,000 square miles (one sixth of the US)
- More than half of all Missourians receive their drinking water from the river and its alluvium.



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Missouri River Basin - Major Projects

Congressionally Authorized Project Purposes (Flood Control Act of 1944) :

- Flood Control
- Navigation
- Hydropower
- Irrigation
- Recreation
- Water Supply
- Water Quality
- Fish & Wildlife



Missouri River Basin Overview

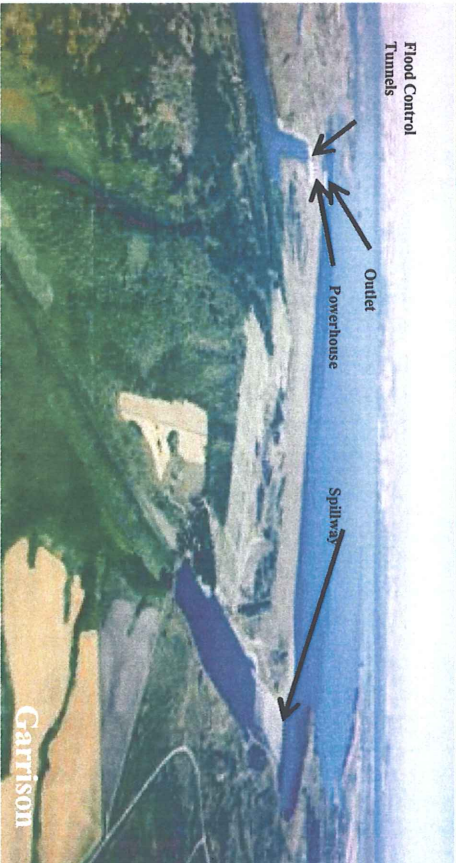
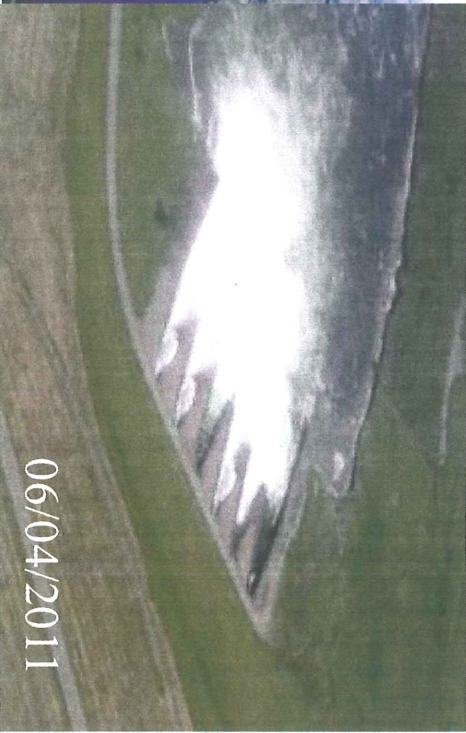
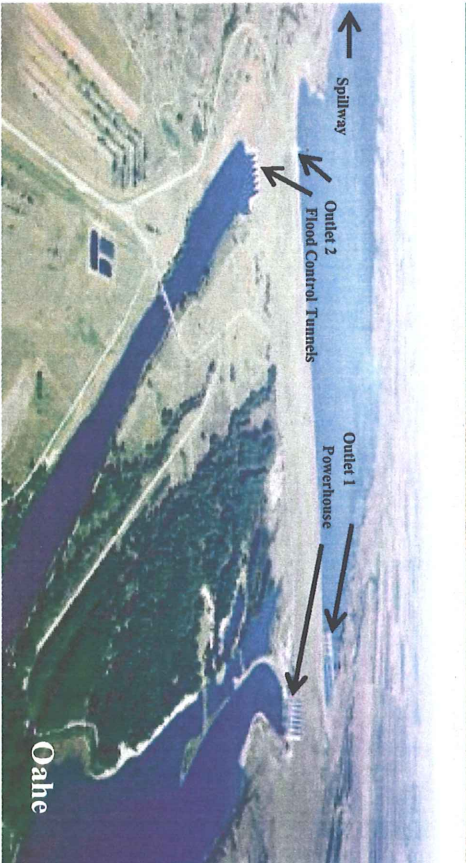
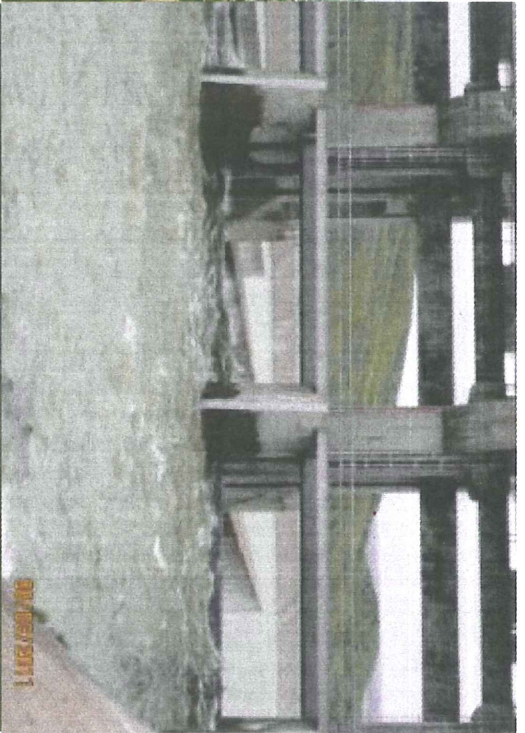
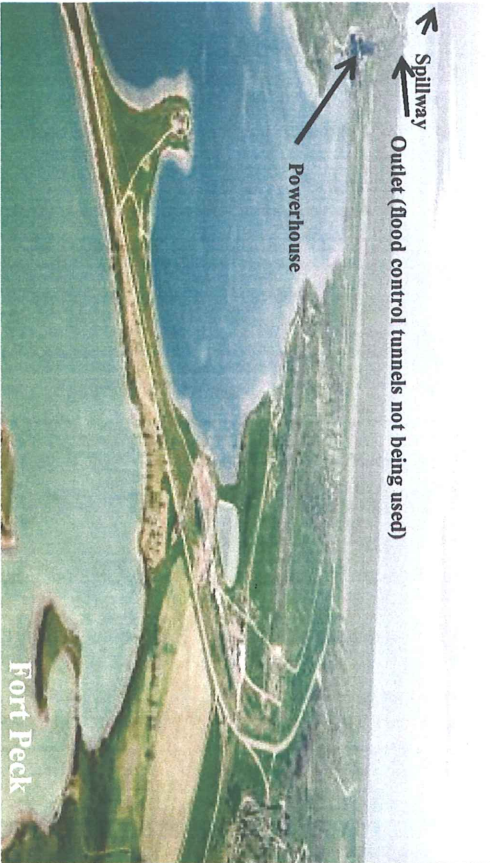
Major Projects

- From the 1930s to the 1960s, six dams were constructed on the Missouri River -- the largest reservoir system in the United States.
- The Missouri River Reservoir System has the capacity to store approximately 23.7 trillion gallons of water (the majority of this water is stored in the upper three reservoirs in Montana, North Dakota, and South Dakota).
- System is managed for multi-purposes: flood control, navigation, hydropower, public water supply
- Operated in accordance with the Master Manual. (project purposes and endangered species)
- Construction cost \$9.6 billion.
- Cumulative Damages Prevented are in excess of \$65.8 billion.



• Snowpack peaked late, 135 to 140 % of normal, and has only just begun to runoff
 • Huge rain event over the late May 2011 (300-600% of normal)
 • Reservoirs full, timing of the snowmelt runoff and reservoir releases is critical
 • USACE providing Advance Flood Fight Measures in ND, SD, MT, WY, NE, and numerous Tribes

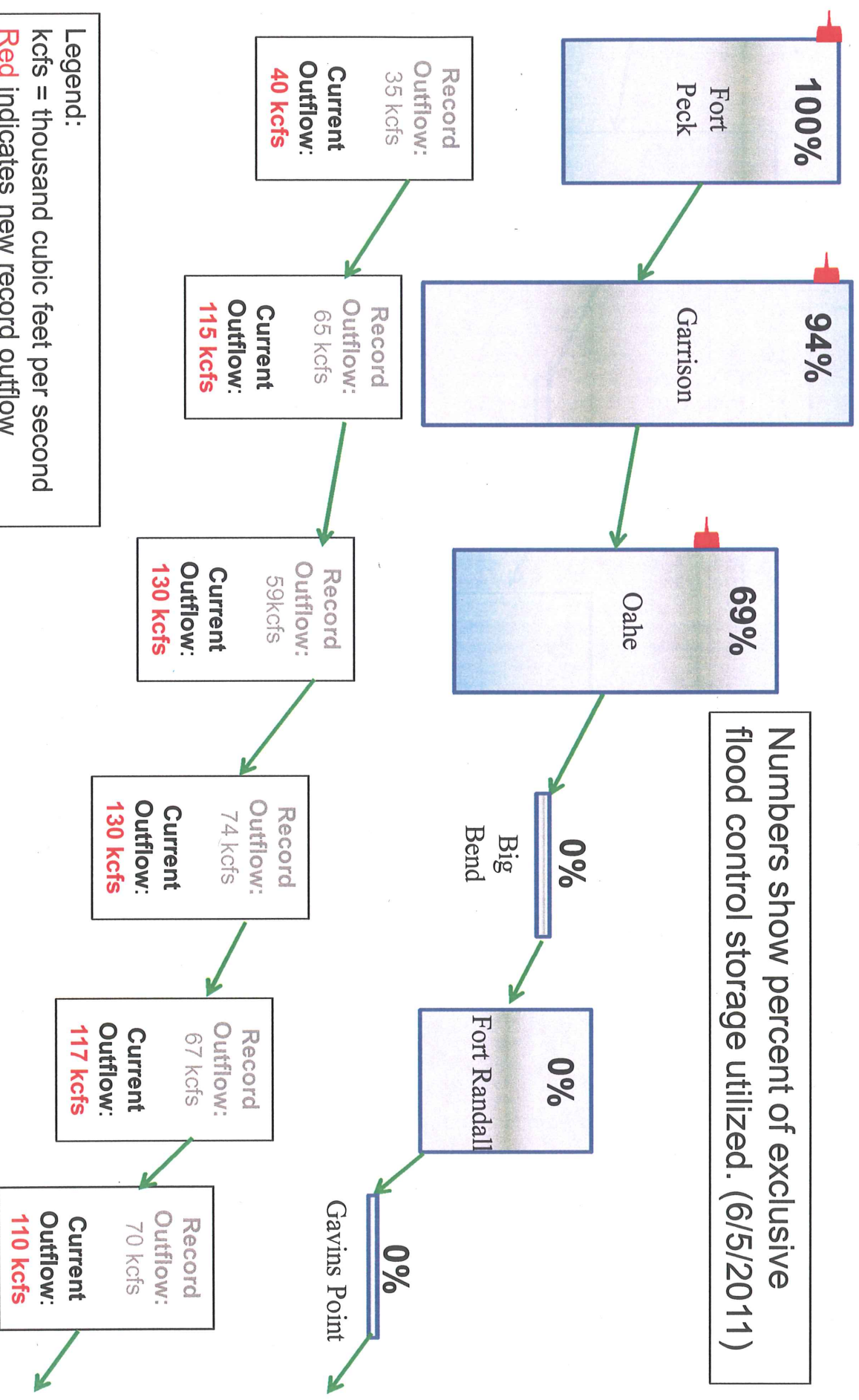
-
- Snowpack peaked late, 135 to 140 % of normal, and has only just begun to runoff
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Missouri River Mainstem Reservoir System Flood Control Storage Current Situation

Numbers show percent of exclusive flood control storage utilized. (6/5/2011)



Temporary Measures

(Pierre, Fort Pierre, Bismark, Mandan, South Sioux City)



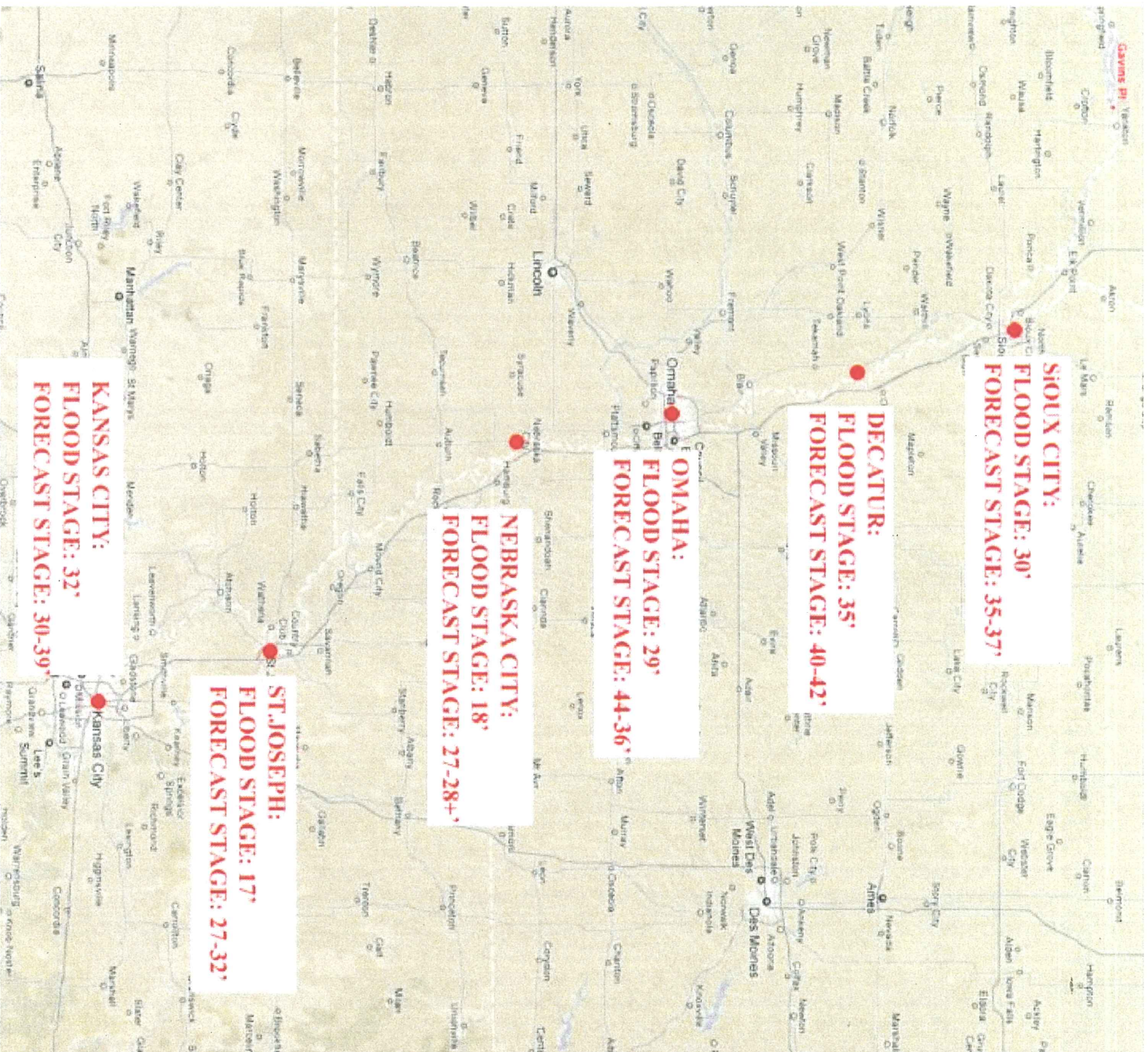
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Temporary Measures (cont.)

(Pierre, Fort Pierre, Bismark, Mandan, South Sioux City)



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**Projected levels
along the
Missouri River**



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Missouri River Forecast Stage Data as of 6/05/11 at 0600 CDT

Location	Flood Stage	Current Stage	Forecast Crest Stage	Date of Crest Stage	Overtopping Stage	Estimated Freeboard
Bismarck, ND	16	17.4	20-21	mid-Jun	^a 22.5	1.5
Pierre, SD	13	17.9	18.7	mid-Jun	^a 22	3.3
Sioux City, IA	30	29.2	35-37	mid-Jun thr Jul	No federal levees	
Decatur, NE	35	34.3	40-42	mid-Jun thr Jul	in this reach	
Omaha, NE	29	29.8	34-36	mid-Jun thr Jul	^b 35	OT
Nebraska City, NE	18	23.1	27-28+	mid-Jun thr Jul	^{b, c} 25.4	OT
St. Joseph, MO	17	21.9	27-32	mid-Jun thr Jul	^b 32	OT
Kansas City, MO	32	26.7	30-39	mid-Jun thr Jul	^b 50.5	11.5
Waverly, MO	20	25.8	27-31	mid-Jun thr Jul	No fed levees in this reach	
Glasgow, MO	25	27.6	32-37	mid-Jun thr Jul	36.5	OT
Boonville, MO	21	24.0	27-33	mid-Jun thr Jul	No fed levees in this reach	
Hermann, MO	21	23.4	27-33	mid-Jun thr Jul	38	5

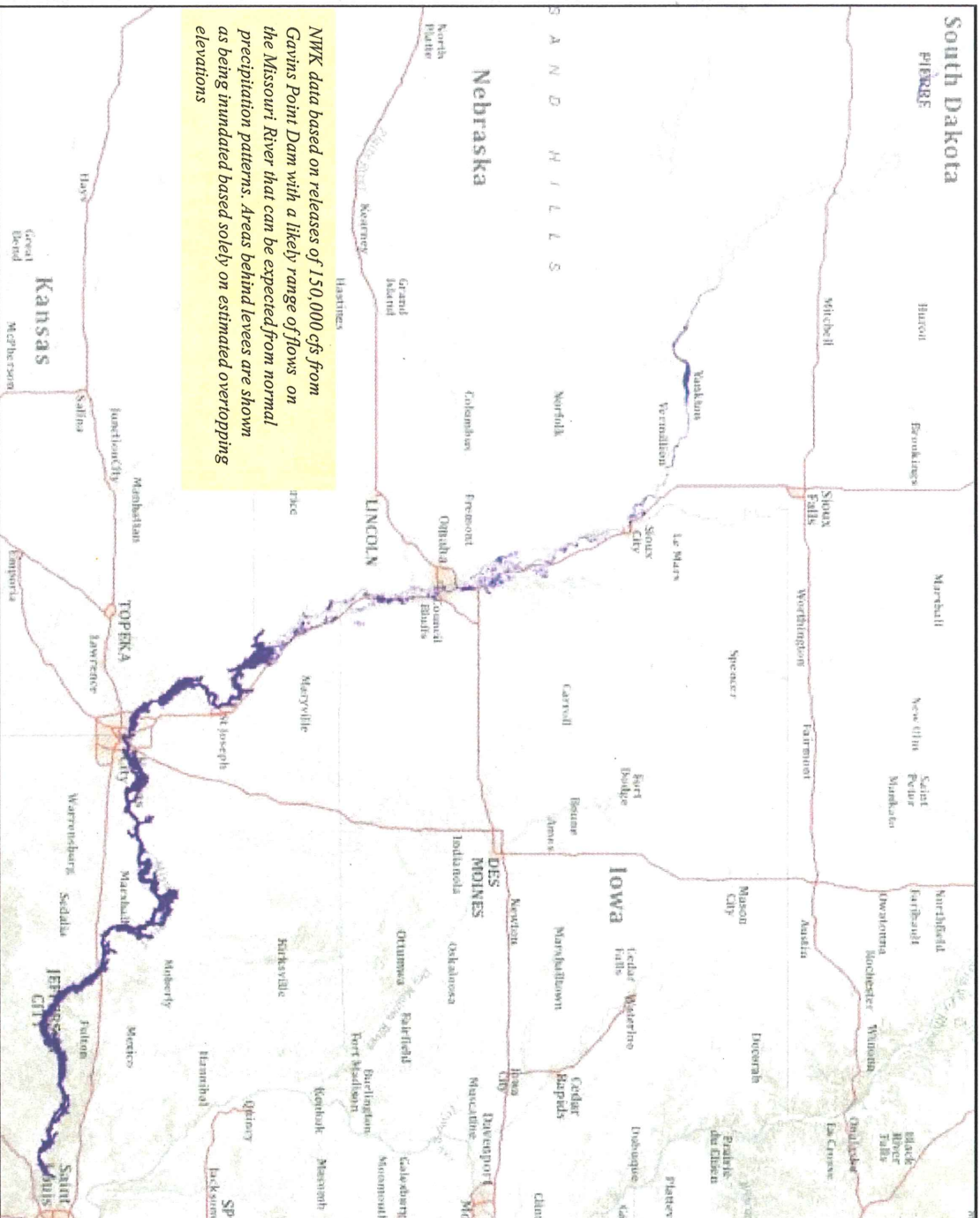
^a Temporary levees constructed for induced flows from Garrison and Oahe.

^b One or more levees are associated with this gage. The lowest overtopping stage is shown. Areas protected by these levees are primarily rural/agricultural.

^c A short segment of I-29 south of Hamburg, IA may be impacted. MODOT & IDOT have been notified.

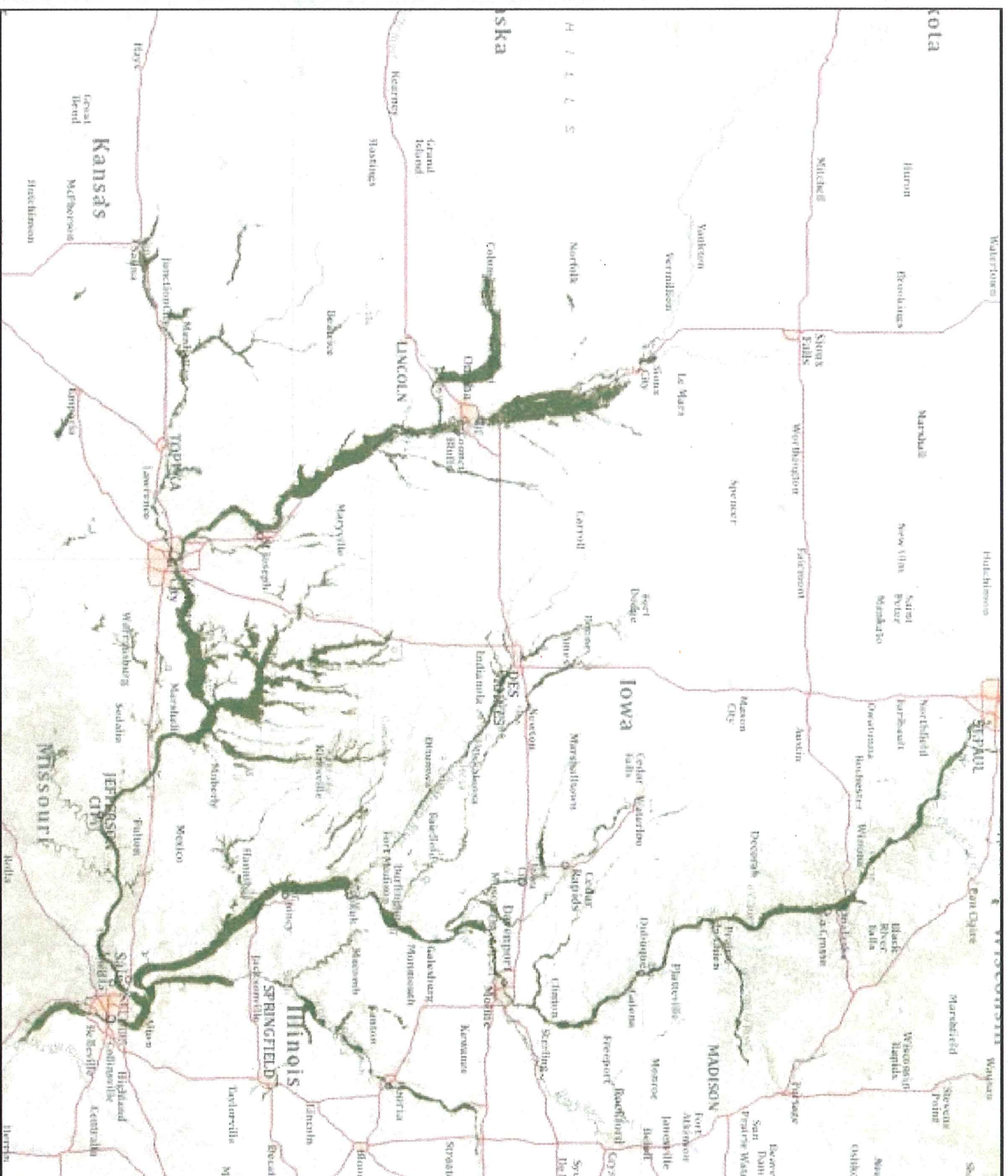


2011 SPRING FLOODS – MISSOURI RIVER PROJECTED INUNDATION



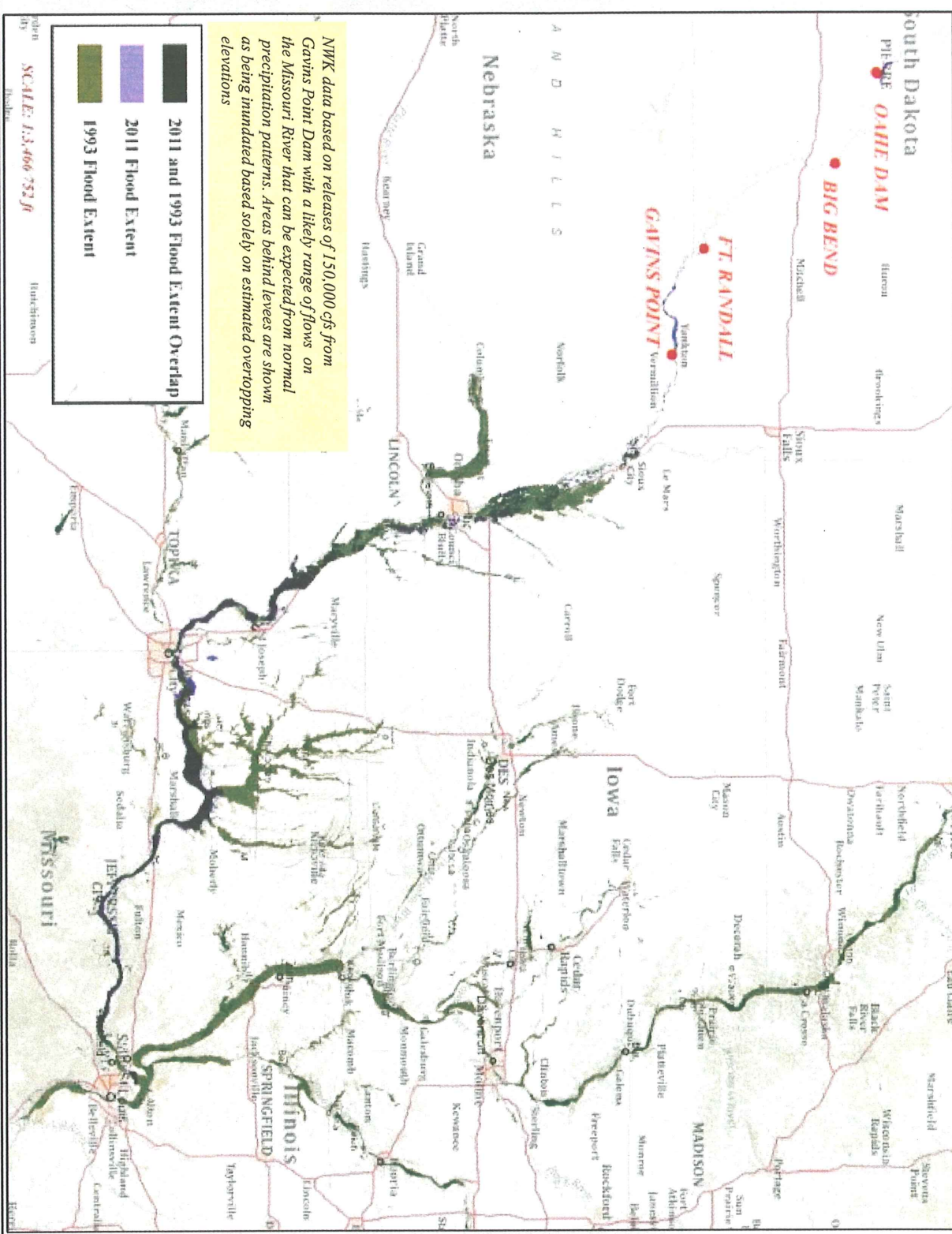
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1993 FLOOD EXTENT



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2011 SPRING FLOOD EXTENT VS. 1993 FLOODING EXTENT



Missouri River Flooding – Impacts on Mississippi River Flooding

- No anticipated impacts to St. Louis
- Missouri River flow travel time from Gavins Point Dam to Cairo, IL is approximately 10-13 days.
- The discharges from the Missouri river are not expected to have any additional impacts on the Birds Point New Madrid Floodway.
- The primary impact of the Missouri River on the Mississippi river is an extended time of high water in the lower Mississippi River Basin (Ark, Miss, La.)



Discussion



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NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 5:48 PM
To: Blechinger, Erik T NWO; McMahon, John R BG NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; Farhat, Jody S NWD02
Subject: RE: Master Manual Talking Points (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Some suggestions in CAPS below.

Witt

-----Original Message-----

From: Blechinger, Erik T NWO
Sent: Tuesday, June 07, 2011 3:27 PM
To: McMahon, John R BG NWD
Cc: Tipton, Robert A Col NWD; [REDACTED] NWD; [REDACTED] NWD
Subject: Master Manual Talking Points

Master Manual and General Reservoir Ops Talking Points:

The Missouri River Mainstem Reservoir System, which includes 6 dams, is operated in accordance with the Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from THE 6 [our] reservoirs for the benefit of the entire Missouri River basin. The Master Manual HYDROLOGY (RUNOFF VOLUME, TIMING, SHAPE WATERSHEDS OF ORIGIN, ETC) is based on over 100 years of historical runoff records (1898-2004).

The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were AUTHORIZED AND constructed.

The reservoir system is designed to capture spring and summer runoff to provide flood RISK REDUCTION [control], and then allows the Corps to manage releases throughout the year to accommodate the other 7 authorized purposes: navigation, irrigation, water supply, hydropower, fish and wildlife, recreation, and water quality.

Each year an annual operating plan is developed to make necessary adjustments to our reservoir operations based on current and projected annual conditions, such as: amount of water received the previous year, rainfall events, plains snow pack, and mountain snow pack. This annual plan is circulated every fall and public meetings are held through the Missouri River Basin to gain inputs from the public and Tribes.

The actual operation of the System is reviewed and, if required, adjusted on a daily basis depending on current AND FORECASTED conditions.

Answers to frequently asked Master Manual Questions:

Were releases held back earlier in the season to protect nesting least terns and piping plovers?

Answer: No operational decisions this year were driven by the NEEDS OF FISH AND WILDLIFE OR THE Endangered Species Act - we have been operating solely for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not [have to] implement in 2011 because

flows were already above normal and because the risk to potential flooding downstream of GAVINS POINT [the System]. Summer adjustments to operations to minimize flooding of protected tern and plover eggs and chicks did not take place this year due to high flow conditions.

Will this change the way the reservoir system is operated in future years?

Answer: The reservoir system has been operated in accordance with the Master Manual.

HOWEVER, 2011 will be a new data point in the history of the Missouri River Basin, both in terms of hydrology and flood plain impacts, so this event will certainly be studied in the future. The Corps will [certainly] conduct an extensive [internal] review following the flooding this year TO ASSESS THE OPERATION, ITS EFFECTS, AND LEARN WHERE IMPROVEMENTS OR ADJUSTMENTS MIGHT BE WARRANTED [for lessons learned]. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

Prepared by: MRJIC, 6 June 2011

Approved by: Erik Blechinger/Jody Farhat

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 5:27 PM
To: Oldham, Margaret NWO
Cc: Farhat, Jody S NWD02; Fredlund, Diana J NWP
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Maggie, Jody:

Please share your TPs for tonight's call with Diana.

MF

-----Original Message-----

From: Fredlund, Diana J NWP
Sent: Tuesday, June 07, 2011 5:21 PM
To: Farmer, Monique L NWO
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Can you get me a copy of Jody's talking points? I'm preparing a news release for distribution after the call tonight and would like to include some of the same info.

Thanks.
Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:43 PM
To: Fredlund, Diana J NWP
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYI

-----Original Message-----

From: McMahon, John R BG NWD

Sent: Tuesday, June 07, 2011 1:49 PM

To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] J NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] A NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02

Subject: Re: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Roger. Thanks, Jody. Keep up the great work!
Vr/John McMahon

----- Original Message -----

From: Farhat, Jody S NWD02

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] Joel D NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02

Sent: Tue Jun 07 12:30:40 2011

Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Monday, June 06, 2011 7:13 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] John K NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Monday, June 06, 2011 5:51 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] Jr NWO; [REDACTED] NWD02; [REDACTED] C NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Quinn, Kevin R NWO
Sent: Tuesday, June 07, 2011 5:26 PM
To: Farmer, Monique L NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

It's on its way.

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 5:25 PM
To: Quinn, Kevin R NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I'm good with that. Kevin: Please release and remember to copy Eric and Marlene for Web posting.

V r,

Monique

-----Original Message-----

From: Quinn, Kevin R NWO
Sent: Tuesday, June 07, 2011 5:20 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Cc: Farmer, Monique L NWO
Subject: RE: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

It might be best to release the info we have now -- and respond to query as more info becomes available. kq

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 4:58 PM
To: [REDACTED] NWO; [REDACTED] NWO
Cc: Farmer, Monique L NWO; Quinn, Kevin R NWO
Subject: FW: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We're planning to put out this press release about the increase in FTPK releases. Monique has a good point that we should address what this additional 5 kcfs means to downstream residents. Do you know what the stage increase/potential impacts might be?

Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 4:49 PM
To: Quinn, Kevin R NWO
Cc: Farhat, Jody S NWD02
Subject: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 5:25 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO
Subject: Fw: FW: Wolf Point and Culbertson forecast update (UNCLASSIFIED)
Attachments: RVFMIL.110607.214058; julie_meyer.vcf

Here is the latest NWS forecast.

Kellie

----- Original Message -----

From: Juliann Meyer <Julie.Meyer@noaa.gov>
To: [REDACTED] NWO
Cc: [REDACTED] NWO
Sent: Tue Jun 07 15:14:51 2011
Subject: Re: FW: Wolf Point and Culbertson forecast update (UNCLASSIFIED)

Here is the forecast which includes the planned release of 55,000 for Ft. Peck on Friday. A review of the Poplar basin showed a lot of wather being forecast in Canada.... cut some of the flow here which ended up be a trade off with the increase in Ft. Peck. With Tom's help extending both Wolf point and Culbertson base ratings and both locations have a fairly significant positive shift. Looking forward to getting the USGS measurements tomorrow or Thursday.

Julie

On 6/7/2011 4:07 PM, Bergman, Kellie K NWO wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> [REDACTED]
>
> When are you predicting the peak stages to occur? Please copy Ryan on
> your response.
>
> Thanks,
> [REDACTED]
>

> -----Original Message-----

> **From:** [REDACTED] NWO
> **Sent:** Tuesday, June 07, 2011 3:59 PM
> **To:** [REDACTED] NWO
> **Subject:** RE: Wolf Point and Culbertson forecast update (UNCLASSIFIED)

>
> Classification: UNCLASSIFIED
> Caveats: NONE
>

> When are the peak stages?
>

> -----Original Message-----

> **From:** [REDACTED] NWO
> **Sent:** Tuesday, June 07, 2011 3:48 PM

> To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;
> Farhat, Jody S NWD02; [REDACTED] NWD02
> Cc: 'Tom Gurss'; [REDACTED] NWO; 'Julie Meyer'
> Subject: Wolf Point and Culbertson forecast update (UNCLASSIFIED)
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
> The Missouri Basin River Forecast Center has run a new forecast for
> these stations. As we heard in our 1300 weather briefing the area has
> received significant precipitation since 0700 today already exceeding
> the QPF in some areas. Both Culbertson and Wolf Point are off the end
> of their rating curves so stage values are estimated. The USGS will measure both gages
tomorrow.
>
>
> Best estimate for peak stages at this point are around 20 feet at
> Culbertson and around 16 feet at Wolf Point.
>
> [REDACTED]
>
> -----Original Message-----
> From: [REDACTED] NWO
> Sent: Tuesday, June 07, 2011 12:13 PM
> To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
> Cc: 'Tom Gurss'
> Subject: Wolf Point and Culbertson forecasts (UNCLASSIFIED)
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Due to the rain in the Milk River basin the current forecast exceeds
> the earlier estimates at Wolf Point and Culbertson. This forecast
> includes QPF, rain that hasn't fallen yet. We are getting a
> measurement there tomorrow, right now the rating curves are being
> extended without supporting data so there is uncertainty there as well.
>
> Current forecast:
>
> Wolf Point (15.3 ft)
> Culbertson (18.4 ft)
>
>
>
> Kellie
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>
> Classification: UNCLASSIFIED

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 5:25 PM
To: Quinn, Kevin R NWO; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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Monique

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From: Quinn, Kevin R NWO
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To: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
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To: [REDACTED] NWO; [REDACTED] NWO
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Subject: FW: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
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Jody

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Cc: Farhat, Jody S NWD02
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Caveats: NONE

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Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: Quinn, Kevin R NWO
Sent: Tuesday, June 07, 2011 5:20 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO
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To: [REDACTED] NWO; [REDACTED] NWO
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Subject: FW: NR060711c.doc (UNCLASSIFIED)

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Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED

NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 5:14 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO
Cc: Farmer, Monique L NWO; Quinn, Kevin R NWO
Subject: RE: NR060711c.doc (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We are modeling this. We will have the modeling done tomorrow afternoon.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 4:58 PM
To: [REDACTED] NWO; [REDACTED] NWO
Cc: Farmer, Monique L NWO; Quinn, Kevin R NWO
Subject: FW: NR060711c.doc (UNCLASSIFIED)

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Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] MVS
Sent: Tuesday, June 07, 2011 4:55 PM
To: Farhat, Jody S NWD02
Subject: Fw: Missouri River Flooding (UNCLASSIFIED)
Attachments: Missouri River.pdf; "Certification"

Have you seen this?

----- Original Message -----

From: [REDACTED] MVS
To: [REDACTED] MVS; [REDACTED] MVS; [REDACTED] NWK; [REDACTED] TAN'
Sent: Tue Jun 07 14:53:10 2011
Subject: FW: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Do Any of you know the author of this article? He is causing a few problems for our levee Districts/

-----Original Message-----

From: Human, David [<mailto:David.Human@huschblackwell.com>]
Sent: Tuesday, June 07, 2011 2:28 PM
To: [REDACTED] MVS
Subject: FW: Missouri River Flooding

David R. Human
Partner
Direct: 314.480.1710
David.Human@huschblackwell.com

-----Original Message-----

From: Mike Reed [<mailto:mreed@snyisland.org>]
Sent: Tuesday, June 07, 2011 8:29 AM
To: Human, David
Subject: Missouri River Flooding

Good luck to all of you down in the St. Louis area on this one. See attached from today's Post Dispatch.

Reed

***** Begin Notice from Husch Blackwell LLP *****

Pursuant to U. S. Treasury regulations, we inform you that any federal tax advice contained in this message (including all constituent email correspondence, attachments, enclosures and/or exhibits) is not intended or written to be used, and cannot be used, for the purpose

of (i) avoiding penalties under the Internal Revenue Code or (ii) promoting, marketing or recommending to another party any transaction or matter addressed herein.

***** End Notice from Husch Blackwell LLP *****

Classification: UNCLASSIFIED

Caveats: NONE

The looming dam failure of 2011

MONTANA OFFICE OF TOURISM

The Fort Peck Dam in Montana. With unprecedented flooding in the upper Midwest this spring, some people are concerned about the dam's stability.

Flooding • An upstream dam failure along the Missouri River would wreak chaos, including in St. Louis.

BY BERNARD SHANKS

There is very real threat of a flood that will leave St. Louis in chest-high water. The reason: Six old, huge, faulty dams that normally have reserve space for spring snow melt are nearly full now — before the spring floods start. Floodgates that haven't been opened in 50 years have begun to open. Flooding has begun. And the human and economic toll could be ghastly.

Why another flood disaster? Six dams from Fort Peck in Montana to Gavins Point in South Dakota, authorized by the Flood Control Act of 1944, are in the process of failing at flood control. With spring water levels low, they can hold back more than three years of average Missouri River flow — enough to stop the worst floods and protect 750 miles of the Missouri River valley and heartland cities. This year, that is not the case.

Let me give you a sense of scale. These reservoirs are massive. Four of the nation's 10 largest reservoirs are along the Missouri River — Fort Peck, Fort Randall, Garrison and Oahe. Three of these had less than five feet of total storage space behind the floodgates at the end of May. With a combined height of 700 feet, these three dams are nearly full. Melting snow surely will complete the task.

With cities from Wolf Point, Mont., to St. Louis facing record levels of water, hundreds of thousands of people are threatened by the unprecedented opening of floodgates. The greatest fear is the massive Fort Peck Dam, a hydraulic-fill dam that is the largest of its kind.

The Fort Peck Dam is built with a flawed design that has suffered a well-known fate for this type of dam — liquefaction — in which saturated soil loses its stability. Hydraulic-fill dams are prone to almost instant collapse from stress or earthquakes. California required all hydraulic-fill dams be torn out or rebuilt — and no other large dams have been built this way since.

At three miles wide, Fort Peck Dam last opened its floodgates 36 years ago. By the end of the first week in June, the U.S. Army Corps of Engineers will be releasing a record spill of water. The corps recently answered the question of possible failure with a statement the dam is "absolutely safe." It may be the largest at-risk dam in the nation.

Downstream, Garrison Dam never has had to use its floodgates since the dam was constructed 50 years ago. By mid-June, the corps plans to dump water equal to a good-sized river. The same is true for Oahe Dam, the next one downstream. Since the reservoirs are nearly full, the corps has no choice.

Effective flood control from six large dams is no longer an option. As a corps representative said, "It now moves us into uncharted territory."

We must all pose a question of national significance to the corps: What if Fort Peck Dam should fail?

Here is a likely scenario: Garrison, Oahe and three



LARRY MAYER • AP

The Musselshell River floods homes and farms near Martinsdale, Mont., late last month.

other downstream earthen dams would have to catch and hold a massive amount of water, an area covering nearly 250 square miles 100 feet deep. But earthen dams, when overtopped with floodwater, do not stand. They break and erode away, usually within an hour. All are full.

There is a possibility a failure of Fort Peck Dam could lead to a domino-like collapse of all five downstream dams. It probably would wreck every bridge, highway, pipeline and power line and split the heartland of the nation, leaving a gap 1,500 miles wide. Countless sewage treatment plants, toxic waste sites and even Superfund sites would be flushed downstream. The death toll and blow to our economy would be ghastly.

Years after Katrina and the New Orleans levee breaks, professional engineers and a federal court judge ruled the Corps of Engineers was to blame.

Are we once again at the brink of a massive corps failure? The corps is infamous for management errors, caving to commercial pressure and losing sight of its primary mission. This pending threat is so huge that it is gambling with the nation's security.

The corps is placing the nation at risk, and if the dams fail, Leon Panetta, who will become secretary of Defense later this month, will have the great Missouri Flood Disaster on his desk. And the entire nation will demand answers as to why the U.S. Army Corps of Engineers did not avert disaster with more economically and ecologically sound methods of flood prevention.

Bernard Shanks, an adviser to the Resource Renewal Institute, has studied the six main-stem Missouri River dams for more than four decades. He has worked for the U.S. Geological Survey and served as director of the Washington Department of Fish and Wildlife. He has written three books on public land policy and is completing a book on the hazards of the Missouri River dams.

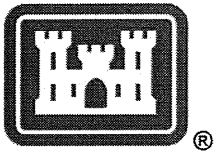
[REDACTED] NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 4:49 PM
To: Quinn, Kevin R NWO
Cc: Farhat, Jody S NWD02
Subject: NR060711c.doc (UNCLASSIFIED)
Attachments: NR060711c.doc

Classification: UNCLASSIFIED
Caveats: NONE

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Classification: UNCLASSIFIED
Caveats: NONE



U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

NEWS RELEASE

Release No: 060711-1

For Immediate Release: June 26, 2011

Contact: Joint Information Center (402) 996-3877

MRJIC@usace.army.mil

Corps to increase releases at Fort Peck

Omaha, Neb.—The U.S. Army Corps of Engineers will increase releases from Fort Peck reservoir from the planned 50,000 cubic feet per second to 55,000 cfs.

Jody Farhat, Chief of the Missouri River Water Management office, says the increase, slated for Friday, June 10, is due to continued high runoff into the reservoir this week, including rain over the reservoir in the last 24 hours.

"Inflows into Fort Peck have been averaging above forecasted levels while inflows to the Garrison reservoir have been averaging a little below forecasted levels. As a result, releases at Fort Peck will be increased to better balance the remaining storage between Fort Peck and Garrison," says Farhat. Peak releases are expected to continue well into August. This change in Fort Peck releases is not expected to impact the planned peak releases of 150,000 cfs at the other five mainstem dams.

For general questions regarding our flood response information efforts, please call (402) 996-3877 or email us at MRJIC@usace.army.mil.

Please follow us on Facebook (www.facebook.com/OmahaUSACE), (www.facebook.com/OperationMightyMo), Twitter (www.twitter.com/OmahaUSACE), YouTube (www.youtube.com), and FLICKR (www.flickr.com) for the latest updates regarding our flood response operations.

You can also find flood inundation maps and local emergency management contact information on our social media sites as well as our district Web site at <http://www.nwo.usace.army.mil>.

View daily and forecasted reservoir and river information on the Water Management section of the Northwestern Division homepage at:
<http://www.nwd-mr.usace.army.mil/rcc>.

###

U.S. Army Corps of Engineers – Omaha District 1616 Capitol Ave., Omaha, Neb. 68102
<http://www.nwo.usace.army.mil/>

Find us on Facebook facebook.com/OmahaUSACE, Twitter twitter.com/OmahaUSACE,
YouTube youtube.com/OmahaUSACE and Flickr flickr.com/OmahaUSACE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 4:37 PM
To: DLL-CENWO-OD-GA; Schenk, Kathryn M NWO; [REDACTED] NWO; [REDACTED] NWO; Bertino, John J Jr NWO; [REDACTED] NWO; [REDACTED] F NWO; [REDACTED] I NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWS
Subject: Garrison Spillway (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Good news!

As of 4:00 pm today, all 28 spillway gates at Garrison Project were open and we are not seeing any indications of problems with our spillway slab. Despite some speculation regarding issues with siltation upstream of the East gates, they opened fine and the silt is on its way to Omaha.

This morning, with 23 gates open, we had significant backwater into the wildlife management area located downstream. We had 5 to 6 feet of water in our spillway pond recreation area and had water backing up along the road adjacent to our downstream recreation area. Sometime this afternoon, the pilot channel blew open and we drained nearly all the backwater. We now have a very efficient channel from the spillway pond to the river and were able to get in to observe our spillway pond recreation area. We only have minor damages and are confident that we can now further increase releases from the spillway without additional impacts to our facilities.

We are currently releasing 30,000 cfs via the spillway with all gates open to 1 foot and gate 14 open to approximately 2 feet.

[REDACTED]
Operations Project Manager
Garrison Project

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 4:23 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD02; [REDACTED] R NWD02; [REDACTED] NWO; [REDACTED]
Subject: [REDACTED] W.NWO
RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,
Currently, we have the following releases:
30,000 cfs via spillway
30,000 cfs via power plant
70,000 cfs via regulating tunnels

All 28 spillway gates are open 1 foot. Gate 14 is open approximately 2 feet.

We are still trying to work the logistics of a shutdown of the regulating tunnels. We want to inspect them but have been advised by an engineer from the Seattle District that some of their DM's do not allow this due to issues with backflow against the generating units. We're trying to determine if that would be an issue, plus have to work the logistics of getting a crane in place, how to get into the tunnels, which ones to inspect, etc. I just haven't had time to work this yet.

-----Original Message-----
From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:48 PM
To: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Todd - how are flows being divided between the spillway and regulating tunnels today, and do you intend to shut off the regulating tunnels at some time to do an inspection?

Also, how far are the gates open, and are they all open the same amount?

Jody

-----Original Message-----
From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 12:42 PM
To: Farhat, Jody S NWD02; Williamson, Eileen L NWO
Cc: [REDACTED] Jr NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED]
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen,

Please remove the second bullet and revise the third one to reflect the following.

At 4:00 pm today, we will have all 28 spillway gates open to pass flood waters.

Yet, another "record"...

Todd

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Tuesday, June 07, 2011 12:40 PM

To: Williamson, Eileen L NWO

Cc: [REDACTED] NWO; [REDACTED] Jr NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,

Jody

-----Original Message-----

From: Williamson, Eileen L NWO

Sent: Tuesday, June 07, 2011 12:36 PM

To: Farhat, Jody S NWD02

Cc: [REDACTED] NWO; [REDACTED] NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Can you tell me what it should say tomorrow?>

This is what it says for

Fort Peck

- Peak release will be 50,000 cfs by no later than mid June.
- Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Garrison

- Releases will be stepped up to 150,000 cfs by mid June.
- Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- First time in history, spillway gates will be used to pass floodwaters.

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Tuesday, June 07, 2011 12:33 PM

To: Williamson, Eileen L NWO

Cc: [REDACTED] NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Eileen - just got a call from Todd Lindquist at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO

Sent: Tuesday, June 07, 2011 10:17 AM

To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; Butler, Steve M NWO; Carter, Hubert J Jr NWO; Davis, Joseph M Maj NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] A NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] J NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] S NWO; [REDACTED] NWO; [REDACTED] M NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen [REDACTED] NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] C NWK; [REDACTED] LRC; [REDACTED] SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL

Cc: [REDACTED] NWO

Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)

* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)

* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

- * 1853.4 ft msl
- * 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 97,000 cfs (6 Jun)
- * 100,000 cfs (5 Jun)

Daily Avg. Release

- * 118,300 cfs (6 Jun)
- * 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1850 ft msl - 1854 ft msl

Top of Spillway Gates

- * 1854 ft msl

River Stage (Bismarck)

- * 17.01 (0515 CDT 7 Jun)
- * Flood stage - 16 ft
- * 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

- * 1419.3 ft msl
- * 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

- * 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)

4 (Fort Yates, ND)

4 (Williston, ND)

1 (Minot, ND)

3 (Pierre, SD)

1 (Kansas City, MO)

5 (Sioux City, IA)

4 (Dakota Dunes, SD)

6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Blair, Amy E NWK
Sent: Tuesday, June 07, 2011 4:17 PM
To: Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Farhat, Jody S NWD02; [REDACTED] NWK
Subject: RE: Congressman Graves Congresswoman Jenkins Dashboard Tour (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE
Sir,

I forgot to mention in my first message to you that there are two SUVs planned on this tour. The first would contain you, Congressman Graves, Congresswoman Jenkins, an additional USACE staffer and Melissa Roe.

The second vehicle would contain the other USACE employees and potentially staff from Senator Roberts' office.

Let me know if I can be of further assistance. I will send Melissa's detailed plan when it comes in tomorrow. I will also be helping put together your talking points in MRJIC.

From: Hofmann, Anthony J COL NWK
Sent: Tuesday, June 07, 2011 4:05 PM
To: Blair, Amy E NWK; Blechinger, Erik T NWO
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Farhat, Jody S NWD02; [REDACTED] NWK
Subject: Re: Congressman Graves Congresswoman Jenkins Dashboard Tour (UNCLASSIFIED)

Thanks Amy--I appreciate it.

Erik- will MRJIC get talking points together? My guess is that we will need to:

1. Clearly explain how the conditions in the upper basin transpired and why earlier releases were not possible.
2. Can we hold more water in the upper basin? If not, why not? The question will come up.
3. In Sioux City area, there are advanced measures taking place with USACE. We need to explain our advanced measures in the lower basin. Jud K. will have these.

I've added Mr. Anderson for his awareness as well since he'll be with us on Friday.
V/r,

Colonel Tony Hofmann, PMP
Commander, Kansas City District
U.S. Army Corps of Engineers
B.B. 816-807-0129

From: Blair, Amy E NWK
To: Hofmann, Anthony J COL NWK
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Blechinger, Erik T NWO

Sent: Tue Jun 07 09:49:24 2011

Subject: Congressman Graves Congresswoman Jenkins Dashboard Tour (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Sir,

I just got off the phone with Melissa Roe from Congressman Graves' office relaying her concerns about the dashboard tour on Friday.

Melissa stated that a pre-brief with you, Congressman Graves and Congresswoman Jenkins could occur before the "tour" begins.

The thought was to have the Levee District President, a few choice CEOs/Presidents of local companies and possibly the mayor and Director of Public Works. This is not intended to be a public meeting, and will not turn into such. She is going to give me the list of all expected meeting attendees sometime tomorrow when she can sit down and work through the specific meeting details.

She made it very clear this is not an ambush; this is intended to be an opportunity for USACE to set the record straight and explain our function and process of doing things. She also made it clear that this was NOT a public meeting, not an ambush and we will have a list of attendees in advance.

Please let me know if you have any other questions or concerns you would like to relay. I'm happy coordinate further with Melissa.

V/R,

Amy E. Blair
Outreach Specialist
Kansas City District,
U.S. Army Corps of Engineers
Office: 816-389-3393
Cell: 816-728-3651
Amy.E.Blair@usace.army.mil <<mailto:Amy.E.Blair@usace.army.mil>>

Missouri River Recovery Program on Facebook at <http://www.facebook.com/moriverrecovery>
<<http://www.facebook.com/moriverrecovery>>

Missouri River Recovery Program on Youtube at <http://www.youtube.com/moriverrecovery>
<<http://www.youtube.com/moriverrecovery>>

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 4:16 PM
To: [REDACTED] NWK; Farhat, Jody S NWD02
Cc: [REDACTED] MVS
Subject: RE: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Steve:
Sure haven't - the guy certainly didn't let the facts get in the way of his sensationalizing a story.....

Ted

-----Original Message-----
From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 3:03 PM
To: [REDACTED] NWO; Farhat, Jody S NWD02
Cc: [REDACTED] MVS
Subject: Fw: Missouri River Flooding (UNCLASSIFIED)

Jody/Ted - u no this guy?

[REDACTED]
Deputy District Engineer for Project Management
(C) 816-665-4770

----- Original Message -----
From: [REDACTED] MVS
To: [REDACTED] MVS; [REDACTED] MVS; [REDACTED] NWK; [REDACTED]
TAN'
Sent: Tue Jun 07 12:53:10 2011
Subject: FW: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Do Any of you know the author of this article? He is causing a few problems for our levee Districts/

-----Original Message-----
From: Human, David [<mailto:David.Human@huschblackwell.com>]
Sent: Tuesday, June 07, 2011 2:28 PM
To: [REDACTED] MVS
Subject: FW: Missouri River Flooding

David R. Human
Partner
Direct: 314.480.1710
David.Human@huschblackwell.com

-----Original Message-----

From: Mike Reed [<mailto:mreed@snyisland.org>]

Sent: Tuesday, June 07, 2011 8:29 AM

To: Human, David

Subject: Missouri River Flooding

Good luck to all of you down in the St. Louis area on this one. See attached from today's Post Dispatch.

Reed

***** Begin Notice from Husch Blackwell LLP *****

Pursuant to U. S. Treasury regulations, we inform you that any federal tax advice contained in this message (including all constituent email correspondence, attachments, enclosures and/or exhibits) is not intended or written to be used, and cannot be used, for the purpose of (i) avoiding penalties under the Internal Revenue Code or (ii) promoting, marketing or recommending to another party any transaction or matter addressed herein.

***** End Notice from Husch Blackwell LLP *****

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Blechinger, Erik T NWO
Sent: Tuesday, June 07, 2011 4:06 PM
To: Hofmann, Anthony J COL NWK; Blair, Amy E NWK
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Farhat, Jody S NWD02; [REDACTED] NWK
Subject: RE: Congressman Graves Congresswoman Jenkins Dashboard Tour (UNCLASSIFIED)

Can do.

-----Original Message-----

From: Hofmann, Anthony J COL NWK
Sent: Tuesday, June 07, 2011 4:05 PM
To: Blair, Amy E NWK; Blechinger, Erik T NWO
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Farhat, Jody S NWD02; [REDACTED] NWK
Subject: Re: Congressman Graves Congresswoman Jenkins Dashboard Tour (UNCLASSIFIED)

Thanks Amy--I appreciate it.

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B.B. 816-807-0129

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To: Hofmann, Anthony J COL NWK
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; Blechinger, Erik T NWO
Sent: Tue Jun 07 09:49:24 2011
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Classification: UNCLASSIFIED
Caveats: NONE

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Amy E. Blair
Outreach Specialist
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<<http://www.facebook.com/moriverrecovery>>
Missouri River Recovery Program on Youtube at <http://www.youtube.com/moriverrecovery>
<<http://www.youtube.com/moriverrecovery>>

Classification: UNCLASSIFIED
Caveats: NONE

Subject: KWIX Radio out of Moberly, SD (UNCLASSIFIED)
Location: Jody's Office (if Col. Ruch accepts, will move to his office)

Start: Wed 6/8/2011 8:30 AM
End: Wed 6/8/2011 9:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Farmer, Monique L NWO
Required Attendees: Farhat, Jody S NWD02; Ruch, Robert J COL NWO

Classification: UNCLASSIFIED
Caveats: NONE

Sir:

I've scheduled this interview for Jody, but would like to provide you with the opportunity as well if you'd like to participate. Short notice from the station.

Monique

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

Can you do a radio interview with Brad Boyer of KWIX Radio out of Moberly, SD? 10-minute segment tomorrow morning from 8:45 to 8:55. Station has been fairly straightforward in our past few interviews. Want to talk releases, schedule moving forward, how we got to this point, our emergency response efforts, etc.

Monique

studio line is 800-209-7837

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Subject: Radio Interview (UNCLASSIFIED)
Location: Your Office

Start: Wed 6/8/2011 8:30 AM
End: Wed 6/8/2011 9:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Farmer, Monique L NWO
Required Attendees: Farhat, Jody S NWD02

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

Can you do a radio interview with Brad Boyer of KWIX Radio out of Moberly, SD? 10-minute segment tomorrow morning.

Monique

studio line is 800-209-7837

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Oldham, Margaret NWO
Sent: Tuesday, June 07, 2011 3:13 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO
Subject: RE: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Don't know him personally, but here's his bio His photo is on web site below..

<http://wildfishconservancy.org/about/board>

Dr. Bernard Shanks

Dr. Bernard Shanks has spent his entire career in outdoor and environmental management. He currently manages the Cooperative Fish and Wildlife Research Units in the western states for the US Geological Survey. He is a past Director of the Washington Department of Fish and Wildlife, where he led the development and adoption of Washington's first science based management plan dedicated to the conservation of the state's wild-fish resources, the WDFW Wild Salmonid Policy.

Dr. Shanks was the Assistant Director for Resources to California Governor Jerry Brown and a public land and wildlife policy advisor to Arizona Governor Bruce Babbitt. He is the author of three books on public land policy, wilderness survival, and California wildlife. A lifelong outdoor enthusiast, avid sport angler, and dedicated conservationist, Dr. Shanks lives with his wife in Deer Harbor, Washington.

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 3:09 PM
To: Oldham, Margaret NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO
Subject: FW: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Any info on this guy? The name looks familiar. He says he's studied the 4 mainstem dams for 40 years.....

-----Original Message-----

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 3:03 PM
To: [REDACTED] NWO; Farhat, Jody S NWD02
Cc: [REDACTED] MVS
Subject: Fw: Missouri River Flooding (UNCLASSIFIED)

Jody/Reed - u no this guy?

[REDACTED]
Deputy District Engineer for Project Management
(C) 816-665-4770

----- Original Message -----

From: [REDACTED] MVS
To: [REDACTED] R MVS; [REDACTED] MVS; [REDACTED] NWK; [REDACTED]
TAN'
Sent: Tue Jun 07 12:53:10 2011
Subject: FW: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Do Any of you know the author of this article? He is causing a few problems for our levee Districts/

-----Original Message-----

From: Human, David [<mailto:David.Human@huschblackwell.com>]
Sent: Tuesday, June 07, 2011 2:28 PM
To: [REDACTED] MVS
Subject: FW: Missouri River Flooding

David R. Human
Partner
Direct: 314.480.1710
David.Human@huschblackwell.com

-----Original Message-----

From: Mike Reed [<mailto:mreed@snyisland.org>]
Sent: Tuesday, June 07, 2011 8:29 AM
To: Human, David
Subject: Missouri River Flooding

Good luck to all of you down in the St. Louis area on this one. See attached from today's Post Dispatch.

Reed

***** Begin Notice from Husch Blackwell LLP *****

Pursuant to U. S. Treasury regulations, we inform you that any federal tax advice contained in this message (including all constituent email correspondence, attachments, enclosures and/or exhibits) is not intended or written to be used, and cannot be used, for the purpose

of (i) avoiding penalties under the Internal Revenue Code or (ii) promoting, marketing or recommending to another party any transaction or matter addressed herein.

***** End Notice from Husch Blackwell LLP *****

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 3:03 PM
To: [REDACTED] NWO; Farhat, Jody S NWD02
Cc: [REDACTED] MVS
Subject: Fw: Missouri River Flooding (UNCLASSIFIED)
Attachments: Missouri River.pdf; "Certification"

Jody/[REDACTED] - u no this guy?
[REDACTED] PE, PMP
Deputy District Engineer for Project Management
(C) 816-665-4770

----- Original Message -----

From: [REDACTED] MVS
To: [REDACTED] MVS; [REDACTED] MVS; [REDACTED] NWK; [REDACTED]
TAN'
Sent: Tue Jun 07 12:53:10 2011
Subject: FW: Missouri River Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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From: Human, David [<mailto:David.Human@huschblackwell.com>]
Sent: Tuesday, June 07, 2011 2:28 PM
To: Kellett, Joseph P MVS
Subject: FW: Missouri River Flooding

David R. Human
Partner
Direct: 314.480.1710
David.Human@huschblackwell.com

-----Original Message-----

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Sent: Tuesday, June 07, 2011 8:29 AM
To: Human, David
Subject: Missouri River Flooding

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Reed

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***** End Notice from Husch Blackwell LLP *****

Classification: UNCLASSIFIED

Caveats: NONE

The looming dam failure of 2011

MONTANA OFFICE OF TOURISM

The Fort Peck Dam in Montana. With unprecedented flooding in the upper Midwest this spring, some people are concerned about the dam's stability.

Flooding • An upstream dam failure along the Missouri River would wreak chaos, including in St. Louis.

BY BERNARD SHANKS

There is very real threat of a flood that will leave St. Louis in chest-high water. The reason: Six old, huge, faulty dams that normally have reserve space for spring snow melt are nearly full now — before the spring floods start. Floodgates that haven't been opened in 50 years have begun to open. Flooding has begun. And the human and economic toll could be ghastly.

Why another flood disaster? Six dams from Fort Peck in Montana to Gavins Point in South Dakota, authorized by the Flood Control Act of 1944, are in the process of failing at flood control. With spring water levels low, they can hold back more than three years of average Missouri River flow — enough to stop the worst floods and protect 750 miles of the Missouri River valley and heartland cities. This year, that is not the case.

Let me give you a sense of scale. These reservoirs are massive. Four of the nation's 10 largest reservoirs are along the Missouri River — Fort Peck, Fort Randall, Garrison and Oahe. Three of these had less than five feet of total storage space behind the floodgates at the end of May. With a combined height of 700 feet, these three dams are nearly full. Melting snow surely will complete the task.

With cities from Wolf Point, Mont., to St. Louis facing record levels of water, hundreds of thousands of people are threatened by the unprecedented opening of floodgates. The greatest fear is the massive Fort Peck Dam, a hydraulic-fill dam that is the largest of its kind.

The Fort Peck Dam is built with a flawed design that has suffered a well-known fate for this type of dam — liquefaction — in which saturated soil loses its stability. Hydraulic-fill dams are prone to almost instant collapse from stress or earthquakes. California required all hydraulic-fill dams be torn out or rebuilt — and no other large dams have been built this way since.

At three miles wide, Fort Peck Dam last opened its floodgates 36 years ago. By the end of the first week in June, the U.S. Army Corps of Engineers will be releasing a record spill of water. The corps recently answered the question of possible failure with a statement the dam is "absolutely safe." It may be the largest at-risk dam in the nation.

Downstream, Garrison Dam never has had to use its floodgates since the dam was constructed 50 years ago. By mid-June, the corps plans to dump water equal to a good-sized river. The same is true for Oahe Dam, the next one downstream. Since the reservoirs are nearly full, the corps has no choice.

Effective flood control from six large dams is no longer an option. As a corps representative said, "It now moves us into uncharted territory."

We must all pose a question of national significance to the corps: What if Fort Peck Dam should fail?

Here is a likely scenario: Garrison, Oahe and three



LARRY MAYER • AP

The Musselshell River floods homes and farms near Martinsdale, Mont., late last month.

other downstream earthen dams would have to catch and hold a massive amount of water, an area covering nearly 250 square miles 100 feet deep. But earthen dams, when overtopped with floodwater, do not stand. They break and erode away, usually within an hour. All are full.

There is a possibility a failure of Fort Peck Dam could lead to a domino-like collapse of all five downstream dams. It probably would wreck every bridge, highway, pipeline and power line and split the heartland of the nation, leaving a gap 1,500 miles wide. Countless sewage treatment plants, toxic waste sites and even Superfund sites would be flushed downstream. The death toll and blow to our economy would be ghastly.

Years after Katrina and the New Orleans levee breaks, professional engineers and a federal court judge ruled the Corps of Engineers was to blame.

Are we once again at the brink of a massive corps failure? The corps is infamous for management errors, caving to commercial pressure and losing sight of its primary mission. This pending threat is so huge that it is gambling with the nation's security.

The corps is placing the nation at risk, and if the dams fail, Leon Panetta, who will become secretary of Defense later this month, will have the great Missouri Flood Disaster on his desk. And the entire nation will demand answers as to why the U.S. Army Corps of Engineers did not avert disaster with more economically and ecologically sound methods of flood prevention.

Bernard Shanks, an adviser to the Resource Renewal Institute, has studied the six main-stem Missouri River dams for more than four decades. He has worked for the U.S. Geological Survey and served as director of the Washington Department of Fish and Wildlife. He has written three books on public land policy and is completing a book on the hazards of the Missouri River dams.

NWO

From: Blair, Amy E NWK
Sent: Tuesday, June 07, 2011 3:03 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: STL Post-Dispatch Editorial: The Looming Missouri Dam Flood (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

http://www.stltoday.com/news/opinion/article_2b1eeca2-e701-51dd-83c2-f7bcc81845a4.html

Wanted to make sure you all saw this editorial that was in the St. Louis paper. It essentially says that Ft. Peck was built via failure and is just waiting for an event like this to burst.

Amy E. Blair
Outreach Specialist
Kansas City District,
U.S. Army Corps of Engineers
Office: 816-389-3393
Cell: 816-728-3651
Amy.E.Blair@usace.army.mil <<mailto:Amy.E.Blair@usace.army.mil>>

Missouri River Recovery Program on Facebook at <http://www.facebook.com/moriverrecovery>
<<http://www.facebook.com/moriverrecovery>>
Missouri River Recovery Program on Youtube at <http://www.youtube.com/moriverrecovery>
<<http://www.youtube.com/moriverrecovery>>

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 3:02 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWO; [REDACTED] NWD02
Subject: FW: Timeline request (UNCLASSIFIED)

Jody - I think this is similar to the question yesterday from Thune's office that you were working the answer for last night. Is there someone else you'd like me to help coordinate with on this to get it off your plate?

[REDACTED]

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:47 PM
To: [REDACTED] NWO
Subject: RE: Timeline request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

This is really a question for Jody (and maybe Remus' folks). Does the Senator really need it now? I'm sure that the rainfall and runoff would be part of the analysis of the post-flood report which would come late summer and fall.

Do you want me to forward it to Jody or will you?

[REDACTED]

-----Original Message-----

From: MRJIC
Sent: Tuesday, June 07, 2011 2:41 PM
To: [REDACTED] NWO; [REDACTED] NWO
Subject: FW: Timeline request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

-----Original Message-----

From: Flickner, Ryan (Roberts) [<mailto:Ryan.Flickner@roberts.senate.gov>]
Sent: Tuesday, June 07, 2011 2:33 PM
To: MRJIC

Subject: Timeline request

Can you provide a timeline of reservoir levels and rainfall events? We have constituent inquiries as to when specific rainfall events occurred and how the inflows/discharges to the main stem reservoirs were impacted.

Thank you,

Ryan

Ryan Flickner

Senior Agriculture Policy Advisor

U.S. Senator Pat Roberts (R-KS)

109 Hart Senate Office Building

Washington, DC 20510-1605

Phone: 202-224-4774

Fax: 202-224-3514

<http://roberts.senate.gov> <<http://roberts.senate.gov/>>

FaceBook-32x32[1] <<http://www.facebook.com/SenPatRoberts>> senate_logo.

<<http://www.roberts.senate.gov/>> Youtube-32x32[1] <<http://www.youtube.com/SenPatRoberts>>
<cid:image004.png@01CB66F9.FE728900> <<http://www.twitter.com/SenPatRoberts>>

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

Subject: KDSN Radio Show (Denison, Iowa) (UNCLASSIFIED)
Location: Col. Ruch's Office

Start: Fri 6/10/2011 8:30 AM
End: Fri 6/10/2011 9:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Farmer, Monique L NWO
Required Attendees: Farhat, Jody S NWD02; Ruch, Robert J COL NWO

Classification: UNCLASSIFIED
Caveats: NONE

Sir:

I have received a request for a live radio interview with KDSN Radio out of Denison, Iowa. They have a morning talk show called, "The Morning Talk Show," and the host, Michael J. Dudding, is looking for a sitrep on our Missouri River flood response operations, our release schedule, how we got to this point, etc. He also would like an update on the levee breach at Hamburg and wants details about any temporary levee construction work we are doing in Harrison County. Our segment would last approximately 10 minutes. I have not been told that the public may call-in with questions, but I think we should be prepared for that as well.

Michael J. Dudding Owner, Sales Manager
August 1993
Family:
Wife: Kathy
Children: Desiree' & Tyler Favorites
Song/Artist: Neil Young "A Man Needs A Maid"
Movie: Saving Private Ryan
Actor: Bill Murray, John Candy
Actress: Sigourney Weaver
Sports Teams: LA Lakers & Minnesota Vikings
Food: Seafood
Hobbies
Coaching Kids Pet Peeve
People that lie "sideways in the public trough."

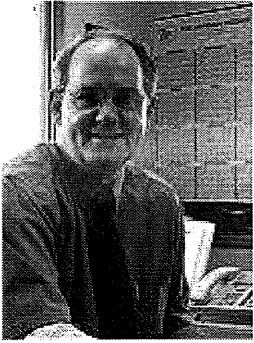
AM 1530 and FM 107.1
<http://KDSNradio.com/uploads/TalkShowTuesdayh.mp3>

V r,

Monique

Classification: UNCLASSIFIED

Caveats: NONE



[REDACTED] NWO

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 2:49 PM
To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: Re: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Roger. Thanks, Jody. Keep up the great work!
Vr/John McMahon

----- Original Message -----

From: Farhat, Jody S NWD02
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Sent: Tue Jun 07 12:30:40 2011
Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:13 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] MAJ NWD; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Monday, June 06, 2011 5:51 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED]
NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]
[REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] NWD02; [REDACTED] MAJ NWD; [REDACTED] NWO;
[REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED

Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:31 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; [REDACTED] NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] a NWD; [REDACTED] NWD02; [REDACTED] MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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Jody

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Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

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Caveats: NONE

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NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]
[REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique
L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD;
[REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO;
[REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] Jr NWO; [REDACTED]
[REDACTED] D NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 2:28 PM
To: Swenson, Michael A NWD02; Farhat, Jody S NWD02; Quinn, Kevin R NWO
Cc: Oldham, Margaret NWO; Quinn, Kevin R NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Kevin:

Can you begin working a news release. We are all covering other issues at the moment.

Thanks,

Monique

-----Original Message-----

From: [REDACTED] NWD02
Sent: Tuesday, June 07, 2011 2:24 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Nothing to add, except we put the increase in for Friday.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:11 PM
To: Farmer, Monique L NWO; [REDACTED] NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Yes - they're just finishing up the forecast and we do show going to 55 kcfs later this week. I'll let you know the exact date as soon as they finalize it. FYI, the change is due to continued high runoff into the reservoir this week including rain over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so FTPK releases will be increased to better balance the remaining storage between FTPK and GARR.

Mike, do you have anything else to add, or any corrections/clarifications to my statement.

Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 1:57 PM

To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

If you know you will include it in your TPs, please let us know soonest so we can develop a news release.

Thanks,

Monique

-----Original Message-----
From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: Re: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

If in fact the forecast shows we need to go up, we'll discuss it on the call tonight and put out a short press release.

Jody

----- Original Message -----
From: Farmer, Monique L NWO
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Sent: Tue Jun 07 11:16:46 2011
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD02
Sent: Tuesday, June 07, 2011 2:24 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Nothing to add, except we put the increase in for Friday.
[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02
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To: Farmer, Monique L NWO; [REDACTED] NWD02
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Jody

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To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

If you know you will include it in your TPs, please let us know soonest so we can develop a news release.

Thanks,

Monique

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Tuesday, June 07, 2011 1:49 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: Re: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

If in fact the forecast shows we need to go up, we'll discuss it on the call tonight and put out a short press release.

Jody

----- Original Message -----
From: Farmer, Monique L NWO
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Sent: Tue Jun 07 11:16:46 2011
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of
Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:12 PM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR; Farhat, Jody S
NWD02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED]
W HQ02; [REDACTED] LRH; [REDACTED] LRH; [REDACTED] MVM
Cc: [REDACTED] NWO; [REDACTED] NWD02; Farhat, Jody S NWD02; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD-OMAHA; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02;
[REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO;
[REDACTED] RMC; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED]
E MVD; DLL-CELRD-RBW; [REDACTED]; [REDACTED] MAJ HQ02; [REDACTED]
[REDACTED] HQ
Subject: Missouri River Basin Water Management Division Situation Report of 6-7-11
(UNCLASSIFIED)
Attachments: Missouri River Basin Water Management Situation Report 6-7-11.docx

Classification: UNCLASSIFIED

Caveats: NONE

Kim/ Eileen,

Today's NWD Water Management situation report is attached.

[REDACTED]
Missouri Basin Water Managment Division
Northwestern Division
Corps of Engineers
402-[REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Basin Water Management Situation Report – 6-7-11

Reservoir Conditions

The upper three reservoirs of the Missouri River Mainstem Reservoir System provide the bulk of the storage of water. All three are in their exclusive flood control zones, with Fort Peck passing its spillway crest (continuing up on raised spillway gates) and the other two being near their spillway crests. Table 1 summarizes the situation as of 0000 hours this morning. More details on the reservoirs can be found on the daily bulletin prepared by the Missouri River Basin Water Management Division at:

<http://www.nwd-mr.usace.army.mil/rcc/reports/showrep.cgi?4BULLOMR1>.

Table 1. Key Reservoir Data (through 0000 hrs 6/7/11)

Reservoir	Inflow kcfs	Outflow kcfs	Top of Spillway Gates feet msl	Current Level feet msl	24-hr Change feet
Fort Peck	51.0	43.0	2250	2250.5	0.0
Garrison	97.0	118.3	1854	1853.4	-0.1
Oahe	137.0	137.6	1620	1619.2	0.1
Big Bend	129.0	128.2	1423	1419.3	0.0
Fort Randall	133.0	121.6	1375	1360.7	0.2
Gavins Point	118.0	115.5	1210	1206.5	0.2

Based on the current level data on the upper three reservoirs, the amount of remaining storage has diminished or is diminishing. One way to characterize this factor is to compute the percent of the exclusive flood control zone that is remaining to store water before water passes uncontrolled over the spillway gates. The lower three reservoirs have much less capability to store the inflows that are coming into the Missouri River Mainstem Reservoir System, with Fort Randall Reservoir having the greater amount. As of today, the stored water has not yet entered the exclusive flood control zones of the three smaller reservoirs; therefore, 100 percent of their exclusive flood control storage remains available. Table 2 summarizes the storage volumes of all six System reservoirs, with the last column listing the amount of exclusive flood control storage that remains as of today. Spillways are now being used at five of the six reservoirs, with no plans to use Oahe spillway at this time. Because the spillway gates are open at Fort Peck, the percent of exclusive has become negative. A positive number must always appear for Oahe as long as the spillway gates remain closed at that project. There are no plans at this time to go above 1854, the top of exclusive, at Garrison even though all 28 spillway gates are open.

Table 2. Reservoir Storage Data (through 0000 hrs 6/7/11)

Reservoir	Current	Total	Remaining	Exclusive	% Excl Left
	kAF	kAF	kAF	kAF	
Fort Peck	18,585	18,463	-122	971	-13
Garrison	23,583	23,821	238	1,489	16
Oahe	22,805	23,137	332	1,102	30
Big Bend	1,584	1,798	214	60	100
Fort Randall	4,034	5,418	1,384	985	100
Gavins Point	355	450	95	57	100

Releases from all six reservoirs are currently exceeding records prior to 2011. Table 3 provides release data for all six reservoirs to provide some perspective on the changes that will be happening over the next 2 weeks. A full listing of the data through mid-July is available at: <http://www.nwd-mr.usace.army.mil/rcc/reports/twout.html>.

Table 3. Reservoir Release Comparisons (through 0000 hours 6/7/11)

Reservoir	Yesterday	Forecast	7 days out	14 days out	Pre-2011
	kcfs	Today	14 June	21 June	Record
	kcfs	kcfs	kcfs	kcfs	kcfs
Fort Peck	43.0	50.0	50	50	35
Garrison	118.3	130.0	140	150	65
Oahe	137.6	150.0	150	150	59
Big Bend	128.2	150.0	150	150	74
Fort Randall	121.6	137.0	147	148	67
Gavins Point	115.5	130.0	150	150	70

River Conditions

Levees have been or are currently being constructed by the Corps in six cities from Bismarck/Mandan, ND to South Sioux City, NE, resulting primarily from the releases from Garrison, Oahe, and Gavins Point Dams. Many communities along the lower Missouri River are currently experiencing Missouri River flows that are above flood stage by several feet. The flood stages currently being experienced will be exceeded as Missouri River Mainstem Reservoir System releases increase over the next few weeks to pass the anticipated inflows from mountain snowpack runoff and heavy rains in the Missouri River basin. Table 4 summarizes the current conditions as of 0600 hours this morning and the Corps' current forecast for crest stages.

Table 4. Missouri River Stage Data for 6/7/11 at 0600 CDT

Location	Flood Stage	Current Stage	Forecast Crest Stage	Date of Crest Stage
Bismarck, ND	16	17.0	20-21	mid-Jun
Pierre, SD	13	18.4	18.7	mid-Jun
Sioux City, IA	30	31.1	35-37	mid-Jun thru July
Decatur, NE	35	35.3	40-42	mid-Jun thru July
Omaha, NE	29	30.1	34-36	mid-Jun thru July
Nebraska City, NE	18	23.2	27-28+	mid-Jun thru July
St. Joseph, MO	17	22.1	27-32	mid-Jun thru July
Kansas City, MO	32	27.0	30-39	mid-Jun thru July
Waverly, MO	20	25.4	27-31	mid-Jun thru July
Boonville, MO	21	23.0	27-33	mid-Jun thru July
Hermann, MO	21	23.5	27-33	mid-Jun thru July

Information on Current Mountain Snowpack and Forecasted Rainfall

Releases from the System reservoirs are based on snowpack and rainfall forecasts in the Missouri River basin. An updated snowfall forecast has not yet been prepared today; however, the Hydrologic Prediction Center (HPC) of NOAA prepares a rainfall forecast daily for up to the next 5 days, with an accumulated figure also presented on its website. Figure 1 is the accumulated 5-day rainfall forecast released today by HPC, and Figure 2 is today's mountain snowpack update compiled by the Corps.

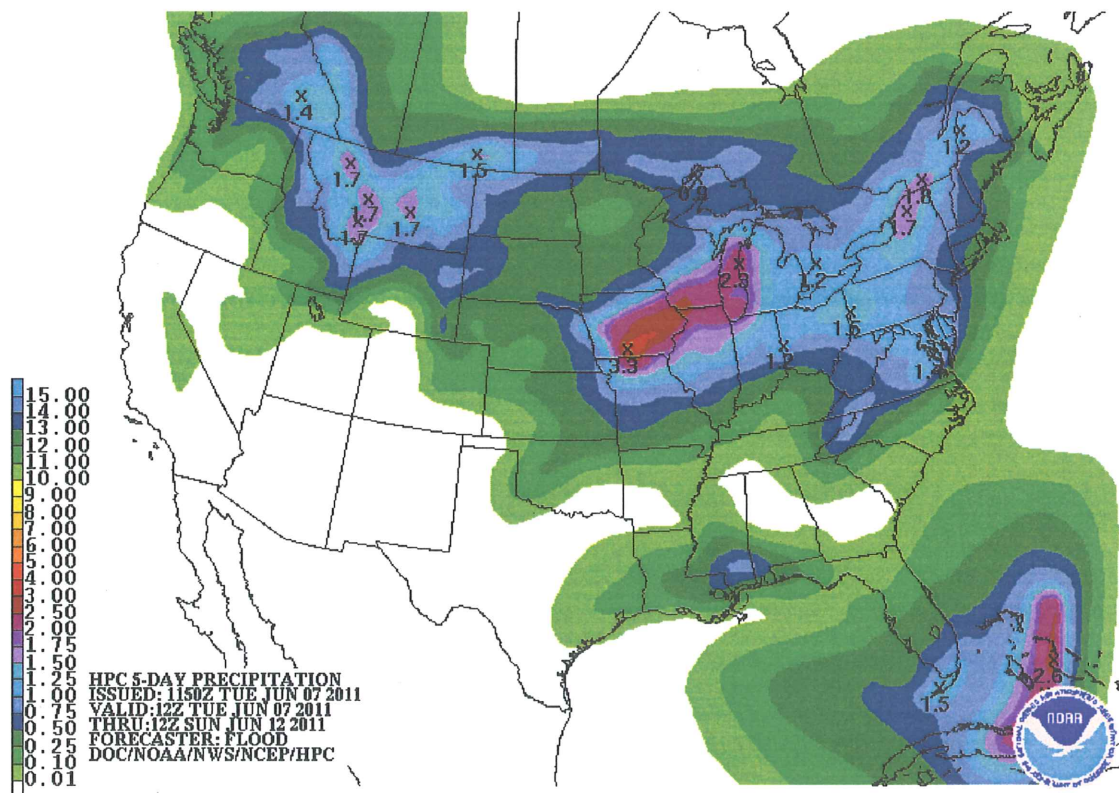


Figure 1. 5-day total QPF ending 0700 Sunday, June 12, 2011.

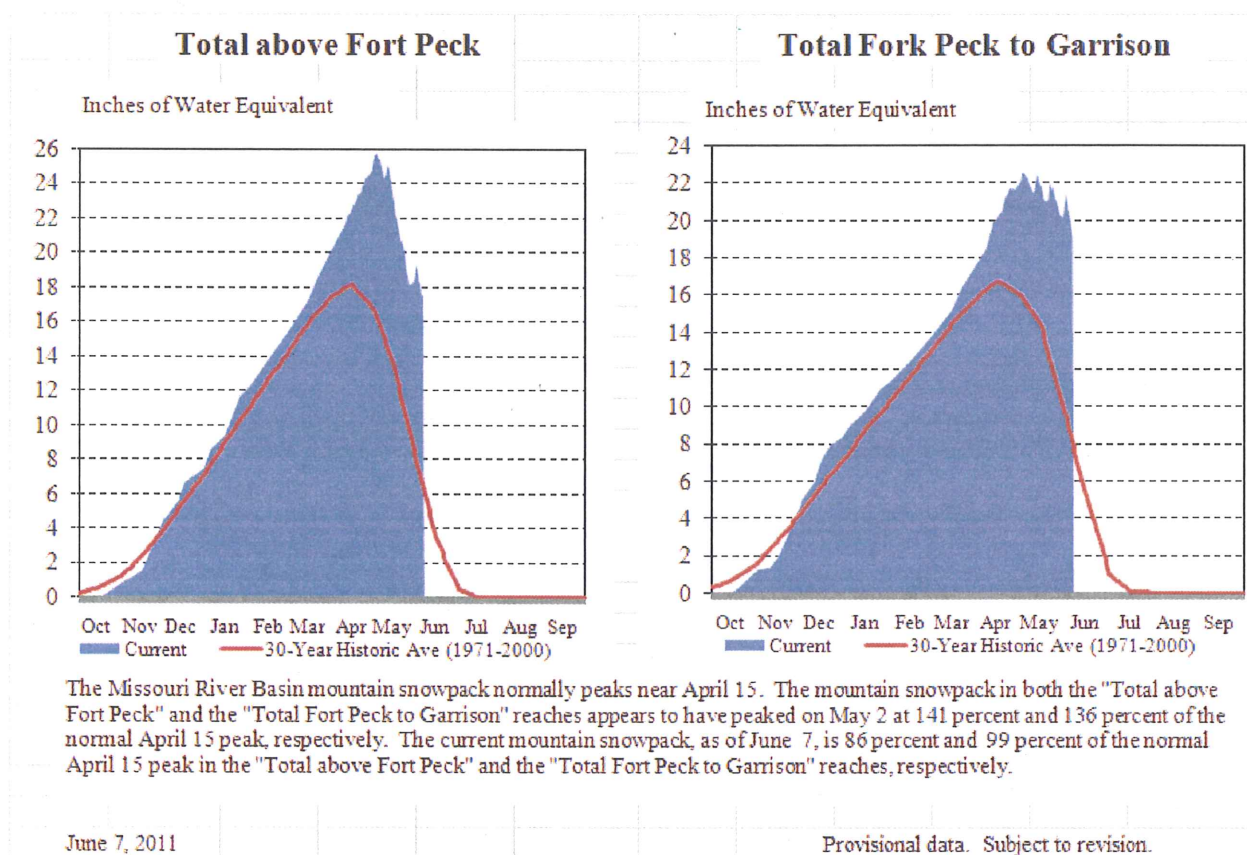


Figure 2. Missouri River basin mountain snowpack water content summary, 2010-2011 – June 7, 2011.

Current Actions and Notable Information

Levee construction for six cities is basically completed to prepare for the high flows on the Missouri River that will result from the increased releases from the Missouri River Mainstem System reservoirs. The Omaha District has been working with the cities of Bismarck/Mandan, ND, Pierre/Ft. Pierre, SD, Dakota Dunes, SD, and South Sioux City, NE to construct levees to limit flood impacts to those cities. Floodplain evacuations have been ongoing for many lower-lying areas along the lower Missouri River.

Floodplain inundation maps have been posted by the Omaha District to identify the areas of potential flooding for the emergency managers and the public. The Kansas City District's floodplain inundation maps are now available on its Flood Response Information website. Overtopping of levees information is also available from both districts.

Minor levee failures occurred this past week on the lower Missouri River with repairs being made to levee unit L-575 just south of the Iowa/Missouri state line. As a precautionary measure should the temporary fix of the slump in the levee not be effective or a larger failure occur elsewhere on this levee unit, the lower portion of the town of Hamburg, Iowa is being evacuated. Figure 3 is a plot showing the nearest gage 0600 stages for 2010 and 2011 (through today), both years with high river stages at Nebraska City. This figure shows that the river level has been relatively static for the last 11 days at a level just under the maximum that occurred in 2010. The forecasts for river stages at Nebraska City for

the next week show a rise to 25.5 feet by next Monday, June 13, and potentially 27 feet by Thursday, June 16.

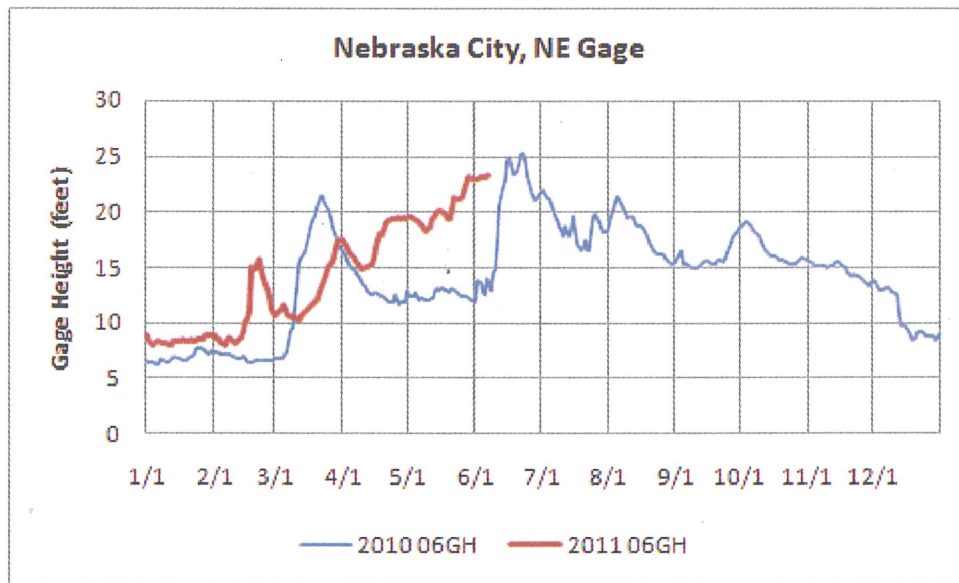
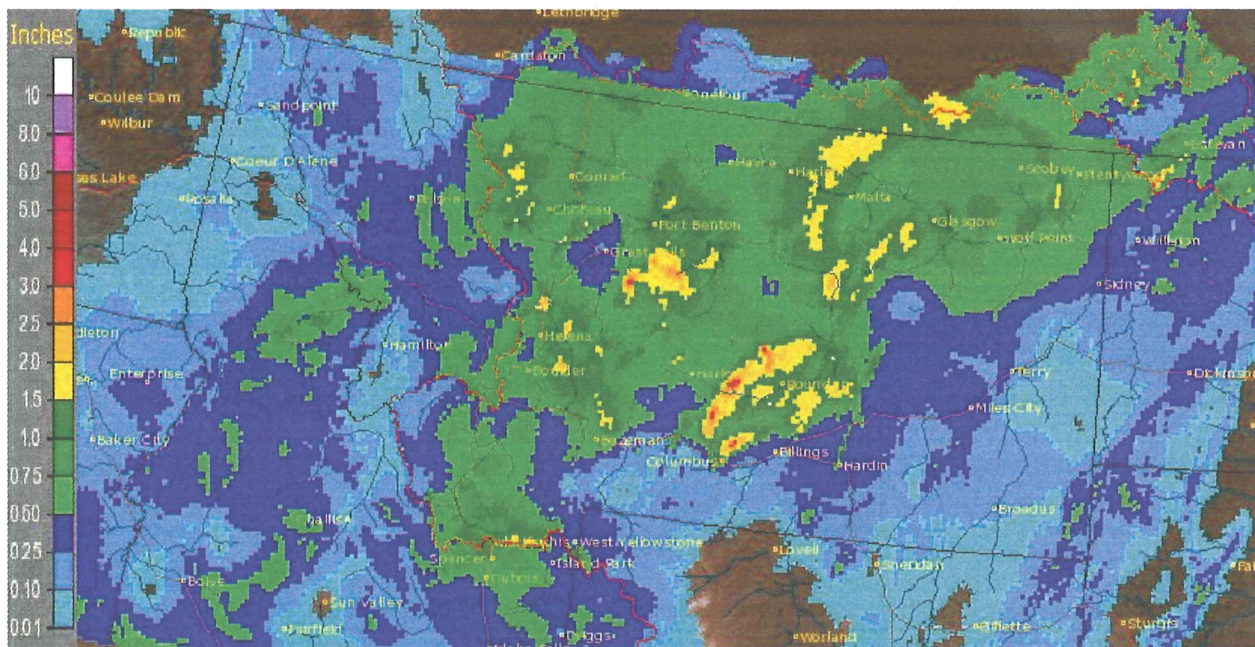


Figure 3. River stages at Nebraska City, Nebraska for 2010 and 2011.

Heavy rains fell again since yesterday in Montana on ground that is likely still saturated from heavy rains the previous 2 to 3 weeks. Figure 4 shows the amount of rain that fell. There are some isolated spots over 2 inches with the bulk of rain over half an inch being on the Missouri River basin side of the mountains.

Montana: Current 1-Day Observed Precipitation
Valid at 6/7/2011 1200 UTC- Created 6/7/11 15:40 UTC



NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 1:57 PM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

If you know you will include it in your TPs, please let us know soonest so we can develop a news release.

Thanks,

Monique

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: Re: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

If in fact the forecast shows we need to go up, we'll discuss it on the call tonight and put out a short press release.

Jody

----- Original Message -----

From: Farmer, Monique L NWO
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Sent: Tue Jun 07 11:16:46 2011
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 1:52 PM
To: Martinez, Abelina E NWD; Farhat, Jody S NWD02
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

OK, Jody and I can discuss when I am in Omaha Thursday and see how we can cover this. I'll be in NWK on Friday, but might be able to do the call w or w/o Jody.

Witt

-----Original Message-----

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 11:46 AM
To: [REDACTED] NWD; Farhat, Jody S NWD02
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody's time is scheduled for 830 PST on 6/10/11 (Friday).

There are many open spaces on Friday afternoon, 1 or 2 PST if that works better.

I think it would be wise for someone to speak on the work the Missouri river water management team does, And how it is important to keep the personnel we already have.

Thanks,
[REDACTED]

-----Original Message-----

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 11:36 AM
To: Farhat, Jody S NWD02; [REDACTED] NWD
Cc: [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Well, I'll be over there with you. What time is it scheduled for?

[REDACTED] is it absolutely necessary?
[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Tuesday, June 07, 2011 10:21 AM
To: [REDACTED] NWD
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - I got your message regarding the manpower interview. I was really hoping that someone like [REDACTED] could cover for us. If it has to be a WM person, then assume it will be me despite the flood.

[REDACTED] - any interest in taking this on for me, or should I plan on doing it?

Jody

-----Original Message-----
From: Unity Messaging System - NWOUNITY1
Sent: Tuesday, June 07, 2011 12:05 PM
To: Farhat, Jody S NWD02
Subject: Voice Message from Unknown (5038083802)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 1:36 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD
Cc: [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Well, I'll be over there with you. What time is it scheduled for?

[REDACTED] is it absolutely necessary?

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:21 AM
To: [REDACTED] NWD
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - I got your message regarding the manpower interview. I was really hoping that someone like [REDACTED] could cover for us. If it has to be a WM person, then assume it will be me despite the flood.

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Jody

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Subject: Voice Message from Unknown (5038083802)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 1:36 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD
Cc: [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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[REDACTED] is it absolutely necessary?

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From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:21 AM
To: [REDACTED] NWD
Cc: [REDACTED] NWD; [REDACTED] NWD
Subject: RE: Voice Message from Unknown (5038083802) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - I got your message regarding the manpower interview. I was really hoping that someone like [REDACTED] could cover for us. If it has to be a WM person, then assume it will be me despite the flood.

[REDACTED] - any interest in taking this on for me, or should I plan on doing it?

Jody

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Sent: Tuesday, June 07, 2011 12:05 PM
To: Farhat, Jody S NWD02
Subject: Voice Message from Unknown (5038083802)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Tipton, Robert A Col NWD
Sent: Tuesday, June 07, 2011 1:26 PM
To: McMahon, John R BG NWD; [REDACTED] NWD; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWD; Farhat, Jody S NWD02; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK
Subject: A Very Fair Article Published Today

A surprisingly honest article that is more than fair to the Corps:

<http://www.mitchellrepublic.com/event/article/id/53412/group/Opinion/>

Robert A. Tipton, P.E.
COL, EN
Deputy Commander
Northwestern Division
U.S. Army Corps of Engineers

503-808-3701

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 1:17 PM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of
Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 1:03 PM
To: DLL-CENWO-OD-GA; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;
[REDACTED] NWO; [REDACTED] NWO
Cc: Farhat, Jody S NWD02; Swenson, Michael A NWD02
Subject: Garrison Surcharge (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,
Recent forecasts for Garrison Project had projected us to "surcharge" the reservoir, which essentially raises the maximum pool for the lake. We surcharge by raising all the spillway gates to a higher elevation. Under normal operations, our maximum pool is elevation 1854, as that is the top of our spillway gates. However, when we are discharging from the spillway, we can raise all 28 gates equally and effectively raise our maximum pool elevation. Forecasts as recent as last week, indicated that we would utilize as much as 1.7 feet of surcharge storage, which would have raised the reservoir to elevation 1855.7. Fortunately, conditions have improved slightly and we are currently NOT forecast to utilize surcharge storage, i.e. anything above 1854.

However, as with all of our current forecasts, this is subject to change as this event plays out. If we experience continued heavy precipitation in the drainage basins above Garrison, we could be forced to utilize some of the surcharge storage. I will let everyone know if our forecast goes back to utilizing surcharge storage...

[REDACTED]
Operations Project Manager
Garrison Project

Classification: UNCLASSIFIED
Caveats: FOUO

From: bill mitzel [dcmag@orbitcom.biz]
Sent: Tuesday, June 07, 2011 12:49 PM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... thanks. I'm still trying to put all this together in my head. Just doesn't seem possible. I can't grasp it. That snowpack at 141% just isn't a major deal. We've had that before, yet we're full and overflowing. Just can't grasp it. It seems like at 120,000 cfs from Garrison, watching the daily river watch, we're gaining ground and the need to go to 150,000 with only 141% snowpack doesn't fit. Difficult. I was hoping it would not exceed 120,000 and that would save a lot of homes and trouble, including mine. Anyway, thanks again.
Bill

On Jun 7, 2011, at 12:14 PM, Farhat, Jody S NWD02 wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> Bill,
>
> My pleasure.
>
> And to answer your questions, at this time we are not planning a
> monthly news release for June but if you need any bits of information
> that are normally included in our monthly news release, let me know
> and I'll get them for you.
>
> As for the mountain snowpack, below are the numbers I have for the
> reach above Fort Peck and the reach between Fort Peck and Garrison.
> o Feb 1 Snowpack = 112% Reach above Fort Peck, 111% Reach between Fort
> Peck and Garrison.
> o Mar 1 Snowpack = 109% Reach above Fort Peck, 106% Reach between Fort
> Peck and Garrison
> o Apr 1 Snowpack = 116% Reach above Fort Peck, 112% Reach between Fort
> Peck and Garrison
> o May 1 Snowpack = 141% Reach above Fort Peck, 136% Reach between Fort
> Peck and Garrison
> o Peak Snowpack = 141% Reach above Fort Peck on May 2, 136% Reach
> between Fort Peck and Garrison on May 2
>
> Let me know if you have any other clarifying questions. Like you, I'm
> always interested in getting the best possible information out to the
> public.
>
> Thanks,
> Jody
>
>
>
> -----Original Message-----
> From: bill mitzel [mailto:dcmag@orbitcom.biz]
> Sent: Tuesday, June 07, 2011 11:51 AM

> To: Farhat, Jody S NWD02
> Subject: Re: Interview Request (UNCLASSIFIED)
>
> Jody... thanks for taking the time to visit with me this morning. I
> forgot two things: 1) Will there be a monthly news release for May?,
> and 2) the snowpack was 116% of normal on 3/31.... what was the
> snowpack percentage on 5/1? Thanks again.
> Bill
>
>
> On Jun 6, 2011, at 1:34 PM, Farhat, Jody S NWD02 wrote:
>
>> Classification: UNCLASSIFIED
>> Caveats: NONE
>>
>> You can call my office at 402-996-3840
>>
>> Jody
>>
>> -----Original Message-----
>> From: bill mitzel [mailto:dcmag@orbitcom.biz]
>> Sent: Monday, June 06, 2011 12:57 PM
>> To: Farhat, Jody S NWD02
>> Subject: Re: Interview Request (UNCLASSIFIED)
>>
>> Jody... that will be fine.... please give me a phone number to call.
>> Thanks.
>> Bill
>>
>>
>> On Jun 6, 2011, at 12:55 PM, Farhat, Jody S NWD02 wrote:
>>
>>> Classification: UNCLASSIFIED
>>> Caveats: NONE
>>>
>>> Bill - Does 11:00 CT tomorrow work for you?
>>>
>>> -----Original Message-----
>>> From: bill mitzel [mailto:dcmag@orbitcom.biz]
>>> Sent: Monday, June 06, 2011 10:41 AM
>>> To: Farhat, Jody S NWD02
>>> Subject: Re: Interview Request (UNCLASSIFIED)
>>>
>>> Jody... here's a list of 20 questions for your advance review. I
>>> might have a few more in-between, as we visit on the phone. Please
>>> review these and let me know what time we can do this during the
>>> coming week here. I anticipate about an hour, give or take. Thanks
>>> very much for your time.
>>> Bill Mitzel
>>> Dakota County Magazine
>>>
>>> Questions for interview with Corps of Engineers...
>>>
>>> 1. How did this all happen so quickly?
>>> 2. (In anticipation of answer No. 1) But we've huge rain and snow
>>> events before (1997). Why was this so bad?
>>> 3. Snowpack wasn't a problem until early June and by then releases

>>> were was over 100,000 cfs on Sakakawea and Oahe. It's hard to accept
>>> those releases from just rain events in Montana?

>>> 4. A press release on June 4 of this year from Ft. Peck proclaimed
>>> "historic snow levels" in the mountains. Yet the snowpack was 108%
>>> of normal on 2/28 and 116% on 3/31. What's "historic" about that?

>>> 5. Weren't these dams built to prevent this type of flooding?

>>> 6. We checked the found that the trouble seemed to begin in the
>>> spring of 2010, yet the snowpack was at 76% of normal in March of
>>> that year.

>>> The 2010
>>> runoff forecast then was at 115%. The ground was saturated with
>>> water.

>>> Did you sense a return of a wet cycle then? Was there a red flag at
>>> that time?

>>> 7. Were you comfortable with upper reservoir levels last fall going
>>> into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at
>>> 1841.7
>>> and Oahe was at 1605.3.) 8. Is there an ideal pool level that you'd
>>> prefer each of these three reservoirs be at on Jan. 1 each year?

>>> 9. There are three factors that people seem to be upset with: 1) Why
>>> wasn't more water released last fall, winter and earlier this spring
>>> from the upper reservoirs to collect spring runoff? 2) Did the Corps
>>> misjudge the amount on snowpack in the mountains last winter? 3)
>>> Management of the system in conjunction with the piping plover and
>>> least tern?

>>> 10. Even last 2/28/11, the Corps said mountain snowpack was only
>>> 108% of normal, then raised to only 116% on 3/31/11. What happened
>>> after that?

>>> 11. In early May of this year, daily releases from Garrison Dam were
>>> only averaging 14,900 cfs. Yet by then the Corps knew or should have
>>> known of the alleged excessive mountain snowpack. Why weren't
>>> releases vamped up earlier last spring in anticipation of excessive
>>> mountain snowpack?

>>> 12. The Corps is charged with managing 6 reservoirs/dams in the
>>> Dakotas. How do you balance those?

>>> 13. It's been said that the barge industry further south gets too
>>> much attention and isn't big enough commercially to warrant
>>> maintaining high flows? How important is the barge industry in this
>>> balance?

>>> 14. Are you influenced heavily by political pressure to maintain
>>> enough water for the barge industry, and how important is that
>>> industry... really?

>>> 15. In the Dakotas, you get pressure to "Keep our water here",
>>> especially during drought years (2002--2008), by various groups
>>> including the tourism, recreation and business communities. How do
>>> you react to that pressure during times of low water?

>>> 16. Would you manage the reservoirs differently if it weren't for
>>> propagation of the piping plover and least tern?

>>> 17. Who directs the Corps to maintain specific water levels for
>>> these birds, as well as manage/build sandbars for them?

>>> 18. I believe Sakakawea's dam height at the top is 1875 feet. If
>>> that's correct, why is the flood peak at 1854, so much lower? What
>>> is the dam height of Ft. Peck and Lake Oahe?

>>> 19. What's the Corps' overall reaction to all of this? Would you
>>> have done anything differently knowing what you know now?

>>> 20. Will the Corps do anything differently when this is over as far
>>> as management operations?

```
>>>
>>> Classification: UNCLASSIFIED
>>> Caveats: NONE
>>>
>>>
>>>
>>
>>
>> Classification: UNCLASSIFIED
>> Caveats: NONE
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>>
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>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>
```

NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 12:42 PM
To: Farhat, Jody S NWD02; Williamson, Eileen L NWO
Cc: [REDACTED] NWO; Schenk, Kathryn M NWO; [REDACTED] NWO; [REDACTED]
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen,
Please remove the second bullet and revise the third one to reflect the following.

At 4:00 pm today, we will have all 28 spillway gates open to pass flood waters.

Yet, another "record"...

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:40 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:36 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you tell me what it should say tomorrow?>

This is what it says for

Fort Peck

- Peak release will be 50,000 cfs by no later than mid June.
- Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Garrison

- Releases will be stepped up to 150,000 cfs by mid June.
- Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- First time in history, spillway gates will be used to pass floodwaters.

-----Original Message-----

From: Farhat, Jody S NWD02
 Sent: Tuesday, June 07, 2011 12:33 PM
 To: Williamson, Eileen L NWO
 Cc: [REDACTED] NWO
 Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
 Caveats: NONE

Eileen - just got a call from [REDACTED] at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
 Jody

-----Original Message-----

From: Williamson, Eileen L NWO
 Sent: Tuesday, June 07, 2011 10:17 AM
 To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; Farhat, Jody NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; Gross, [REDACTED] LRC; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
 Cc: Hollandsworth, Margaret A NWO
 Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
 Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

- * 51,000 cfs (6 Jun)
- * 52,000 cfs (5 Jun)

Daily Avg. Release

- * 43,000 cfs (6 Jun)
- * 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

- * 17.01 (0515 CDT 7 Jun)
- * Flood stage - 16 ft
- * 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- * First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

- * 1854.8 msl (1975)

Record Flow (Year)

- * 65,000 cfs (1975)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

- * 1619.2 ft msl
- * 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)
- * 133,000 cfs (5 Jun)

Daily Avg. Release

- * 137,600 cfs (6 Jun)
- * 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

- * 1620 ft msl

River Stage (Pierre)

- * 18.34 (0531 CDT 7 Jun)
- * Flood stage - 15 ft
- * 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

- * 1618.7 msl (1995)

Record Flow (Year)

- * 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)
4 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE



From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:36 PM
To: Farhat, Jody S NWD02.
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you tell me what it should say tomorrow?>

This is what it says for

Fort Peck

- Peak release will be 50,000 cfs by no later than mid June.
- Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Garrison

- Releases will be stepped up to 150,000 cfs by mid June.
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- First time in history, spillway gates will be used to pass floodwaters.

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Sent: Tuesday, June 07, 2011 12:33 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - just got a call from [REDACTED] at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
Jody

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From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 10:17 AM
To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO;
'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED]
NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; Farhat, Jody
S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK;
[REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED]
[REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED]
[REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK;
[REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov';
[REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov';

Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A
Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen
L NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED],
[REDACTED] LRC; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret
NWO; [REDACTED] SWL
Cc: [REDACTED] NWO
Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

- * 2250.5 ft msl
- * 24-hr Change (+0.0ft)

Daily Avg. Inflow

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- * 52,000 cfs (5 Jun)

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Annual Flood Ctrl & Multi-Use

Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

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* 35,000 cfs (1975)

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* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

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* 65,000 cfs (1975)

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* 24-hr Change (+0.1 ft)

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Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

- * 1618.7 msl (1995)

Record Flow (Year)

- * 59,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

- * 1419.3 ft msl
- * 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)

4 (Fort Yates, ND)

4 (Williston, ND)

1 (Minot, ND)

3 (Pierre, SD)

1 (Kansas City, MO)

5 (Sioux City, IA)

4 (Dakota Dunes, SD)

6 (S. Sioux City, NE)

2 (Missouri River Survey)

1 (Decatur, NE)

3 (Offutt, NE)

6 (North Platte, NE)

4 (Roundup, MT)

1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:33 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks will do.
Roy, please help me remember.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:33 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - just got a call from [REDACTED] at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 10:17 AM
To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; Farhat, Jody NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] LRC; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Cc: Hollandsworth, Margaret A NWO
Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)

* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)

* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

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Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

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* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

- * 121,600 cfs (6 Jun)
- * 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1365 ft msl - 1375 ft msl

Top of Spillway Gates

- * 1375 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

- * 1372.2 msl (1997)

Record Flow (Date)

- * 67,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

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Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

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Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

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Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

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Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

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Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

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Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

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HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 12:13 PM
To: 'bill mitzel'
Cc: Farhat, Jody S NWD02
Subject: Graphics (UNCLASSIFIED)
Attachments: 607NR-RIVERWATCH6-11.pdf

Classification: UNCLASSIFIED
Caveats: NONE

Bill:

Here are today's stats, but check the graphic on the final page as it will be the most helpful to show you how the main stem works as a system.

Monique

-----Original Message-----

From: U.S. Army Corps of Engineers Omaha District [mailto:eileen.l.williamson@usace.army.mil]
Sent: Tuesday, June 07, 2011 11:00 AM
To: Farmer, Monique L NWO
Subject: Riverwatch June 7, 2011 #2011MoRivFlood

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT) Fort Peck(In operation since 1940) Midnight Elevation

- * 2250.5 ft msl
- * 24-hr Change (+0.0ft)

Daily Avg. Inflow

- * 51,000 cfs (6 Jun)
- * 52,000 cfs (5 Jun)

Daily Avg. Release

- * 43,000 cfs (6 Jun)
- * 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use
Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone
(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)
* 35,000 cfs (1975)

Projected Record Flow (Date)
* 50,000 cfs (Mid June)

Garrison(In operation since 1955)
Midnight Elevation
* 1853.4 ft msl
* 24-hr Change (-0.1 ft)

Daily Avg. Inflow
* 97,000 cfs (6 Jun)
* 100,000 cfs (5 Jun)

Daily Avg. Release
* 118,300 cfs (6 Jun)
* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)
* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)
* 1850 ft msl - 1854 ft msl

Top of Spillway Gates
* 1854 ft msl

River Stage (Bismarck)
* 17.01 (0515 CDT 7 Jun)
* Flood stage - 16 ft
* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)
* Releases will be stepped up to 150,000 cfs by mid June.
* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)
* 1854.8 msl (1975)

Record Flow (Year)
* 65,000 cfs (1975)

Projected Record Flow (Date)
* 150,000 cfs (Mid June)

Oahe(In operation since 1962)
Midnight Elevation
* 1619.2 ft msl
* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)
- * 133,000 cfs (5 Jun)

Daily Avg. Release

- * 137,600 cfs (6 Jun)
- * 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

- * 1620 ft msl

River Stage (Pierre)

- * 18.34 (0531 CDT 7 Jun)
- * Flood stage - 15 ft
- * 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

- * 1618.7 msl (1995)

Record Flow (Year)

- * 59,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

- * 1419.3 ft msl
- * 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

- * 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

- * 74,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

- * 1360.7 ft msl
- * 24-hr Change (+0.2 ft)

Daily Avg. Inflow

- * 133,000 cfs (6 Jun)
- * 120,000 cfs (5 Jun)

Daily Avg. Release

- * 121,600 cfs (6 Jun)
- * 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1365 ft msl - 1375 ft msl

Top of Spillway Gates

- * 1375 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

- * 1372.2 msl (1997)

Record Flow (Date)

- * 67,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

- * 1206.5 ft msl
- * 24-hr Change (+0.2 ft)

Daily Avg. Inflow

- * 118,000 cfs (6 Jun)
- * 104,000 cfs (5 Jun)

Daily Avg. Release

- * 115,500 cfs (6 Jun)
- * 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1208 ft msl - 1210 ft msl

Top of Spillway Gates

- * 1210 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

- * 1209.7 msl (2010)

Record Flow (Date)

- * 70,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1023032x-1270668>>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1023031x-248006>>

Internet: <http://www.nwo.usace.army.mil> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1023030x-768404>>

Facebook: <http://www.facebook.com/OmahaUSACE> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x1023029x-1288802>>

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<<http://us.vocuspr.com/Url.aspx?520028x1023033x-750271>>

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U.S. Army Corps of Engineers Omaha District, 1616 Capitol Ave, Omaha, NE 68102 United States

Classification: UNCLASSIFIED

Caveats: NONE



Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
Midnight Elevation <ul style="list-style-type: none">2250.5 ft msl24-hr Change (+0.0ft) Daily Avg. Inflow <ul style="list-style-type: none">51,000 cfs (6 Jun)52,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">43,000 cfs (6 Jun)36,900 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">2234 ft msl – 2246 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">2246 ft msl – 2250 ft msl Top of Spillway Gates <ul style="list-style-type: none">2250 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Peak release will be 50,000 cfs by no later than mid June.Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. Record Pool Elevation (Year) <ul style="list-style-type: none">2251.6 msl (1975) Record Flow (Year) <ul style="list-style-type: none">35,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none">50,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1853.4 ft msl24-hr Change (-0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none">97,000 cfs (6 Jun)100,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">118,300 cfs (6 Jun)115,300 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1837.5 ft msl – 1850 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1850 ft msl – 1854 ft msl Top of Spillway Gates <ul style="list-style-type: none">1854 ft msl River Stage (Bismarck) <ul style="list-style-type: none">17.01 (0515 CDT 7 Jun)Flood stage – 16 ft17.23 (0715 CDT 6 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.First time in history, spillway gates will be used to pass floodwaters. Record Pool Elevation (Year) <ul style="list-style-type: none">1854.8 msl (1975) Record Flow (Year) <ul style="list-style-type: none">65,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1619.2 ft msl24-hr Change (+0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none">137,000 cfs (6 Jun)133,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">137,600 cfs (6 Jun)126,800 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1607.5 ft msl – 1620 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1617 ft msl – 1620 ft msl Top of Spillway Gates <ul style="list-style-type: none">1620 ft msl River Stage (Pierre) <ul style="list-style-type: none">18.34 (0531 CDT 7 Jun)Flood stage – 15 ft18.07 (0730 CDT 6 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. Record Pool Elevation (Year) <ul style="list-style-type: none">1618.7 msl (1995) Record Flow (Year) <ul style="list-style-type: none">59,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1419.3 ft msl24-hr Change (-0.0 ft) Daily Avg. Inflow <ul style="list-style-type: none">129,000 cfs (6 Jun)116,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">128,200 cfs (6 Jun)114,200 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1420 ft msl – 1423 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1422 ft msl – 1423 ft msl Top of Spillway Gates <ul style="list-style-type: none">1423 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June.Reservoir will remain essentially level at 1420 feet. Record Pool Elevation (Year) <ul style="list-style-type: none">1422.1 msl (1991) Record Flow (Date) <ul style="list-style-type: none">74,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1360.7 ft msl24-hr Change (+0.2 ft) Daily Avg. Inflow <ul style="list-style-type: none">133,000 cfs (6 Jun)120,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">121,600 cfs (6 Jun)112,400 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1350 ft msl – 1375 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1365 ft msl – 1375 ft msl Top of Spillway Gates <ul style="list-style-type: none">1375 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none">1372.2 msl (1997) Record Flow (Date) <ul style="list-style-type: none">67,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)	Midnight Elevation <ul style="list-style-type: none">1206.5 ft msl24-hr Change (+0.2 ft) Daily Avg. Inflow <ul style="list-style-type: none">118,000 cfs (6 Jun)104,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none">115,500 cfs (6 Jun)101,900 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none">1204.5 ft msl – 1210 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none">1208 ft msl – 1210 ft msl Top of Spillway Gates <ul style="list-style-type: none">1210 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none">Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none">1209.7 msl (2010) Record Flow (Date) <ul style="list-style-type: none">70,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none">150,000 cfs (Mid June)



US Army Corps
of Engineers
Chadron District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
24-hr forecast (Glasgow, MT) Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%. Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%. Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.	24-hr forecast (Riverdale, ND) Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms. Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible. Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.	24-hr forecast (Pierre, SD) Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph. Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph. Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph. 24-hr forecast (Ft. Pierre, SD) Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph. Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph. Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.	24-hr forecast (Lower Brule, SD) Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph. Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph. Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.	24-hr forecast (Chamberlain, SD) Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph. Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph. Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.	24-hr forecast (Yankton, SD) Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph. Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest. Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph. 24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph. Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%. Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.</p> <p>Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.</p> <p>Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.</p> <p>Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

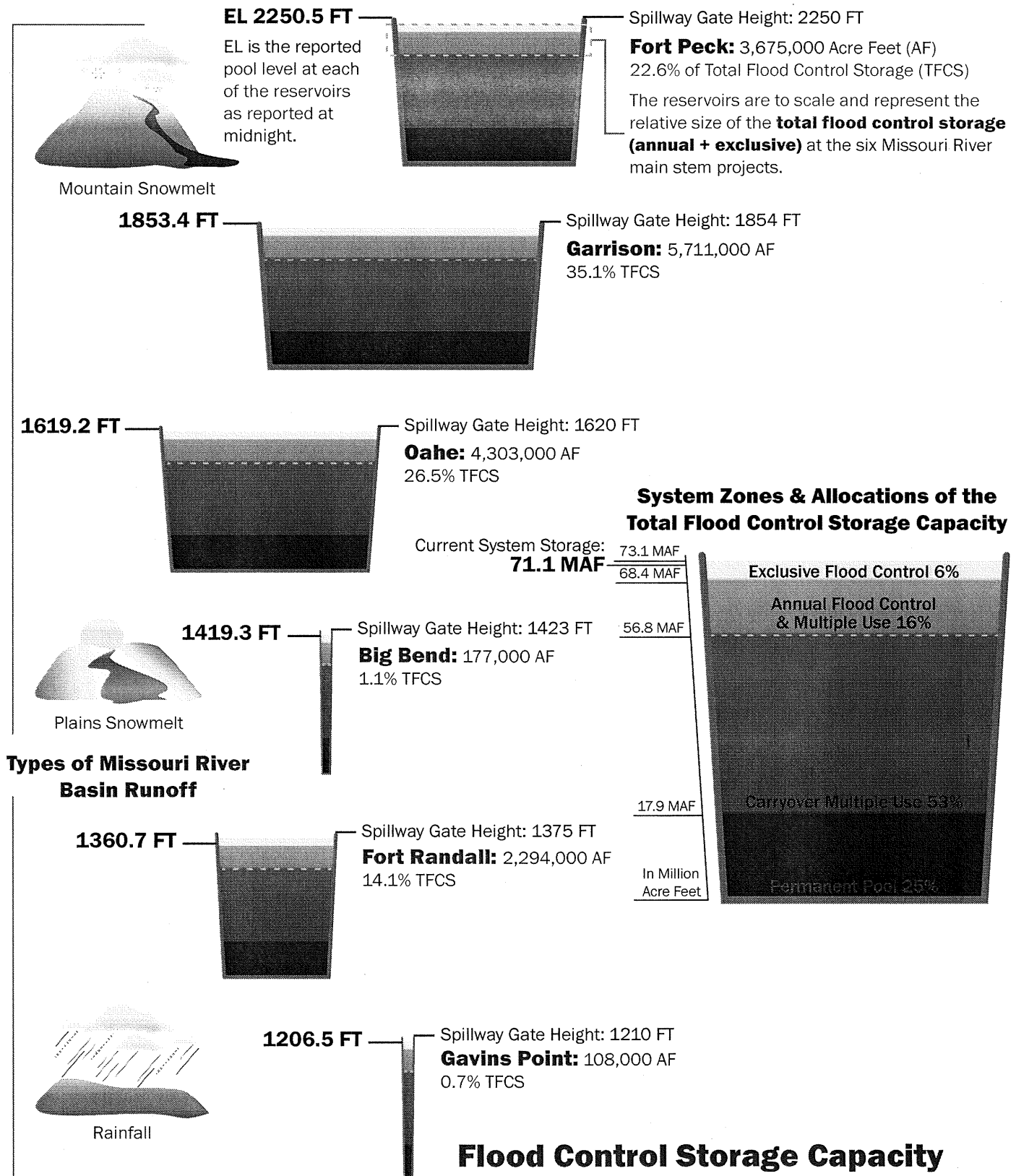
Twitter: <http://www.twitter.com/OmahaUSACE>

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Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Main Stem Reservoir System

Midnight Elevation (EL) Forecast: June 7, 2011 (feet above mean sea level)



NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 11:58 AM
To: [REDACTED] SWL
Cc: Farhat, Jody S NWD02
Subject: RE: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Mid-August. Adjustments to the release schedule will be made if necessary based on hydrologic models. These models are run daily and include consideration of mountain snowpack, plains snowpack and precipitation.

Jody - please cosign.

-----Original Message-----

From: [REDACTED] SWL
Sent: Tuesday, June 07, 2011 11:47 AM
To: Farmer, Monique L NWO
Subject: Re: Call down to MRJIC (UNCLASSIFIED)

Eric was asked how long we are projecting this event to last. Eric said the date he is working off of is mid july. Reporter said that yesterday a corps official said mid august. what is the correct answer?

Thanks

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farmer, Monique L NWO
To: [REDACTED] SWL
Sent: Tue Jun 07 08:30:40 2011
Subject: RE: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Anything done would need to go through Contracting.

Monique

-----Original Message-----

From: [REDACTED] SWL
Sent: Tuesday, June 07, 2011 10:30 AM
To: Farmer, Monique L NWO
Subject: Re: Call down to MRJIC (UNCLASSIFIED)

Thanks for the info. I'll get with the construction guys on the ground here to see what they think.

Jay

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farmer, Monique L NWO

To: [REDACTED] NWO

Cc: DLL-NWK-MRJIC

Sent: Tue Jun 07 08:26:47 2011

Subject: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

Just wanted to let you know that we received a call from a gentleman named Doug Prange of Prange Aerial Photography. He wants to know whether we need a contractor for Aerial Photography.

402.421.3310.

V r,

Monique Farmer

Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District

(402) 995-2588

(402) 779-1460

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: bill mitzel [dcmag@orbitcom.biz]
Sent: Tuesday, June 07, 2011 11:51 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... thanks for taking the time to visit with me this morning. I forgot two things: 1) Will there be a monthly news release for May?, and 2) the snowpack was 116% of normal on 3/31.... what was the snowpack percentage on 5/1? Thanks again.
Bill

On Jun 6, 2011, at 1:34 PM, Farhat, Jody S NWD02 wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> You can call my office at 402-996-3840
>
> Jody
>
> -----Original Message-----
> From: bill mitzel [mailto:dcmag@orbitcom.biz]
> Sent: Monday, June 06, 2011 12:57 PM
> To: Farhat, Jody S NWD02
> Subject: Re: Interview Request (UNCLASSIFIED)
>
> Jody... that will be fine.... please give me a phone number to call.
> Thanks.
> Bill

> On Jun 6, 2011, at 12:55 PM, Farhat, Jody S NWD02 wrote:

>> Classification: UNCLASSIFIED
>> Caveats: NONE
>>
>> Bill - Does 11:00 CT tomorrow work for you?
>>
>> -----Original Message-----
>> From: bill mitzel [mailto:dcmag@orbitcom.biz]
>> Sent: Monday, June 06, 2011 10:41 AM
>> To: Farhat, Jody S NWD02
>> Subject: Re: Interview Request (UNCLASSIFIED)
>>
>> Jody... here's a list of 20 questions for your advance review. I
>> might have a few more in-between, as we visit on the phone. Please
>> review these and let me know what time we can do this during the
>> coming week here. I anticipate about an hour, give or take. Thanks
>> very much for your time.
>> Bill Mitzel
>> Dakota County Magazine
>>
>> Questions for interview with Corps of Engineers...
>>

>> 1. How did this all happen so quickly?

>> 2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?

>> 3. Snowpack wasn't a problem until early June and by then releases were over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?

>> 4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?

>> 5. Weren't these dams built to prevent this type of flooding?

>> 6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year.

>> The 2010 runoff forecast then was at 115%. The ground was saturated with water.

>> Did you sense a return of a wet cycle then? Was there a red flag at that time?

>> 7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)

>> 8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?

>> 9. There are three factors that people seem to be upset with: 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff? 2) Did the Corps misjudge the amount on snowpack in the mountains last winter? 3) Management of the system in conjunction with the piping plover and least tern?

>> 10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?

>> 11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?

>> 12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?

>> 13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?

>> 14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?

>> 15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?

>> 16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?

>> 17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?

>> 18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?

>> 19. What's the Corps' overall reaction to all of this? Would you have

>> done anything differently knowing what you know now?
>> 20. Will the Corps do anything differently when this is over as far
>> as management operations?
>>
>> Classification: UNCLASSIFIED
>> Caveats: NONE
>>
>>
>>
>
>
> Classification: UNCLASSIFIED
> Caveats: NONE
>
>
>

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 11:37 AM
To: [REDACTED] NWO; [REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: RE: WM Update - 6-7-11 (UNCLASSIFIED)

Thanks [REDACTED]

Really appreciate you leaning forward and getting this over to me instead of making me come ask for it. Makes things easier.

[REDACTED]
Contingency Operations Officer
Readiness and Contingency Operations
Northwestern Division
US Army Corps of Engineers
Desk: [REDACTED]
Cell: [REDACTED]
raymond.e.love@usace.army.mil
Raymond.E.Love@usace.army.smil.mil
Emergency Satellite Phone: 8816-5142-9533 Emergency Cell: 503-888-3656

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-----Original Message-----

From: [REDACTED]. Jr NWO
Sent: Tuesday, June 07, 2011 9:33 AM
To: [REDACTED] NWD; [REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: WM Update - 6-7-11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Today's Update is attached.

[REDACTED]
Missouri River Basin Water Management Division Northwestern Division Corps of Engineers
402-[REDACTED]
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

Classification: UNCLASSIFIED

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 11:33 AM
To: [REDACTED] NWD; [REDACTED] NWD
Cc: Farhat, Jody S NWD02
Subject: WM Update - 6-7-11 (UNCLASSIFIED)
Attachments: NWD Missouri Basin Update - 060711.pptx

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
Today's Update is attached.

[REDACTED]
Missouri River Basin Water Management Division Northwestern Division Corps of Engineers
402- [REDACTED]
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Basin Stages

7 June 2011



	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages	Projected Date **	Record Stage (Year)
A	Bismarck	16	17.0	150 kcfs 20.6	June 19	
B	Pierre	15	18.4	150 kcfs 18.7	June 7	
C	Yankton	20	22.9	150 kcfs n/a	June 14	
D	Sioux City	30	31.1	170 kcfs 35	June 15	44.28 (1952)
E	Decatur	35	35.3	175 kcfs 40	June 15	43.5 (1943)
F	Blair	26.5	28.9	175 kcfs 30	June 15	33.5 (1952)
G	Omaha	29	30.1	175 kcfs 34	June 16	40.2 (1952)
H	Nebraska City	18	23.2	200 kcfs 27	June 16	27.19 (1993)
I	Brownville	33	39.3	205 kcfs 43	June 16	44.3 (1993)
J	Rulo	17	23.1	210 kcfs 25.5	June 17	26.63 (2010)
K	St. Joseph	17	22.1	215 kcfs 27	June 17	32.07 (1993)
L	Atchison	22	n/a	215 kcfs 30	June 17	31.63 (1993)
M	Leavenworth	20	n/a	215 kcfs 27	June 17	35.34 (1993)

Missouri River Basin Stages

7 June 2011



US Army Corps of Engineers
BUILDING STRONG®

	Station	Flood Stage	Current Stage	Likely Range of Highest* Flows/Stages		Projected Date **	Record Stage (Year)
N	Kansas City	32	27.0	220 kcfs 30	350 kcfs 39	June 18	48.87 (1993)
O	Sibley	22	26.1	220 kcfs 28	350 kcfs 33	June 18	40.6 (1952)
P	Napoleon	17	22.7	220 kcfs 25	350 kcfs 29	June 18	28.86 (2007)
Q	Waverly	20	25.4	230 kcfs 27	370 kcfs 31	June 18	31.15 (1993)
R	Miami	18	23.8	235 kcfs 26	370 kcfs 30	June 19	32.6 (1993)
S	Glasgow	25	26.3	250 kcfs 32	410 kcfs 37	June 19	39.5 (1993)
T	Boonville	21	23.0	260 kcfs 27	420 kcfs 33	June 19	37.1 (1993)
U	Jefferson City	23	22.6	260 kcfs 27	430 kcfs 35	June 19	38.3 (1993)
V	Chamois	17	19.2	290 kcfs 24	450 kcfs 29	June 19	33.3 (1993)
W	Gasconade	22	26.3	300 kcfs 30	470 kcfs 35	June 19	39.6 (1993)
X	Hermann	21	23.5	300 kcfs 27	470 kcfs 33	June 20	36.97 (1993)
Y	Washington	20	20.0	300 kcfs 23	470 kcfs 32	June 20	35.4 (1993)
Z	St. Charles	25	26.3	300 kcfs 28	470 kcfs 37	June 20	40.04 (1993)

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Tuesday, June 07, 2011 11:16 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD02
Subject: RE: Items to takeaway Wed (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Yes. [REDACTED] and I will coordinate it.

[REDACTED].
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE
402. [REDACTED]
402. [REDACTED] (fax)

-----Original Message-----
From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:54 AM
To: [REDACTED] NWD02; [REDACTED] NWD02
Subject: FW: Items to takeaway Wed (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We need to get these hard copy products for BG McMahon by tomorrow.

Can one of you or your staff handle that for me?

Thanks,
Jody

-----Original Message-----
From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 10:52 AM
To: Farhat, Jody S NWD02
Subject: Re: Items to takeaway Wed (UNCLASSIFIED)

Hardcopy, please. Call me old fashioned...

----- Original Message -----
From: Farhat, Jody S NWD02
To: McMahon, John R BG NWD
Cc: Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED]
NWD02
Sent: Tue Jun 07 08:45:58 2011
Subject: RE: Items to takeaway Wed (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Yes, very doable. Do you want the information electronically or a hard copy? The Master Manual hard copy is in a 2 1/2 inch binder.

Jody

-----Original Message-----

From: McMahon, John R BG NWD

Sent: Tuesday, June 07, 2011 10:26 AM

To: Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD

Subject: Items to takeaway Wed

Jody:

Before I depart tomorrow nite, I'd like to get my own copy of the MR Master Manual and relevant appendices to read and study. Also, tables of data showing pool levels and releases at each reservoir from last summer's high point till now. Doable? Thanks.

Vr/John McMahon

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 11:12 AM
To: DLL-CENWD Zorinsky-Floor 3; DLL-CENWO-ALL Employees
Subject: Riverwatch June 7, 2011 #2011MoRivFlood (UNCLASSIFIED)
Attachments: 607NR-RIVERWATCH6-11.pdf

Classification: UNCLASSIFIED
Caveats: NONE

As Corps employees, we know that your friends and neighbors may have questions regarding the flooding.

Below is the official information that we have available.

We are posting this information to Facebook on a daily basis.
<http://us.vocuspr.com/Publish/520028/PRAssetNWORiverwatch.xml>

Please use this information or direct people who ask you questions to Facebook.

This will be sent daily through the duration of the flooding event.

Regards, Eileen Williamson

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT) Fort Peck(In operation since 1940) Midnight Elevation

- * 2250.5 ft msl
- * 24-hr Change (+0.0ft)

Daily Avg. Inflow

- * 51,000 cfs (6 Jun)
- * 52,000 cfs (5 Jun)

Daily Avg. Release

- * 43,000 cfs (6 Jun)
- * 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use
Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone
(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)
- * 133,000 cfs (5 Jun)

Daily Avg. Release

- * 137,600 cfs (6 Jun)
- * 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

- * 1620 ft msl

River Stage (Pierre)

- * 18.34 (0531 CDT 7 Jun)
- * Flood stage - 15 ft
- * 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

- * 1618.7 msl (1995)

Record Flow (Year)

- * 59,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

- * 1419.3 ft msl
- * 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Classification: UNCLASSIFIED

Caveats: NONE



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 2250.5 ft msl■ 24-hr Change (+0.0ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 51,000 cfs (6 Jun)■ 52,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 43,000 cfs (6 Jun)■ 36,900 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 2234 ft msl – 2246 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 2246 ft msl – 2250 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 2250 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Peak release will be 50,000 cfs by no later than mid June.• Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 2251.6 msl (1975) <p>Record Flow (Year)</p> <ul style="list-style-type: none">■ 35,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 50,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 1853.4 ft msl■ 24-hr Change (-0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 97,000 cfs (6 Jun)■ 100,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 118,300 cfs (6 Jun)■ 115,300 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 1837.5 ft msl – 1850 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 1850 ft msl – 1854 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 1854 ft msl <p>River Stage (Bismarck)</p> <ul style="list-style-type: none">■ 17.01 (0515 CDT 7 Jun)■ Flood stage – 16 ft■ 17.23 (0715 CDT 6 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Releases will be stepped up to 150,000 cfs by mid June.• Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.• First time in history, spillway gates will be used to pass floodwaters. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 1854.8 msl (1975) <p>Record Flow (Year)</p> <ul style="list-style-type: none">■ 65,000 cfs (1975) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 1619.2 ft msl■ 24-hr Change (+0.1 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 137,000 cfs (6 Jun)■ 133,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 137,600 cfs (6 Jun)■ 126,800 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 1607.5 ft msl – 1620 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 1617 ft msl – 1620 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 1620 ft msl <p>River Stage (Pierre)</p> <ul style="list-style-type: none">■ 18.34 (0531 CDT 7 Jun)■ Flood stage – 15 ft■ 18.07 (0730 CDT 6 Jun) <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Releases will be stepped up to 150,000 cfs by mid June.• Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 1618.7 msl (1995) <p>Record Flow (Year)</p> <ul style="list-style-type: none">■ 59,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 1419.3 ft msl■ 24-hr Change (-0.0 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 129,000 cfs (6 Jun)■ 116,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 128,200 cfs (6 Jun)■ 114,200 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 1420 ft msl – 1423 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 1422 ft msl – 1423 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 1423 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Releases will be stepped up to 150,000 cfs by mid June.• Reservoir will remain essentially level at 1420 feet. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 1422.1 msl (1991) <p>Record Flow (Date)</p> <ul style="list-style-type: none">■ 74,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 1360.7 ft msl■ 24-hr Change (+0.2 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 133,000 cfs (6 Jun)■ 120,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 121,600 cfs (6 Jun)■ 112,400 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 1350 ft msl – 1375 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 1365 ft msl – 1375 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 1375 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Releases will be stepped up to 150,000 cfs by mid June. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 1372.2 msl (1997) <p>Record Flow (Date)</p> <ul style="list-style-type: none">■ 67,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 150,000 cfs (Mid June)	<p>Midnight Elevation</p> <ul style="list-style-type: none">■ 1206.5 ft msl■ 24-hr Change (+0.2 ft) <p>Daily Avg. Inflow</p> <ul style="list-style-type: none">■ 118,000 cfs (6 Jun)■ 104,000 cfs (5 Jun) <p>Daily Avg. Release</p> <ul style="list-style-type: none">■ 115,500 cfs (6 Jun)■ 101,900 cfs (5 Jun) <p>Annual Flood Ctrl & Multi-Use Zone (Elevation)</p> <ul style="list-style-type: none">■ 1204.5 ft msl – 1210 ft msl <p>Exclusive Flood Ctrl Zone (Elevation)</p> <ul style="list-style-type: none">■ 1208 ft msl – 1210 ft msl <p>Top of Spillway Gates</p> <ul style="list-style-type: none">■ 1210 ft msl <p>Planned Scheduled Releases (Subject to Change)</p> <ul style="list-style-type: none">• Releases will be stepped up to 150,000 cfs by mid June. <p>Record Pool Elevation (Year)</p> <ul style="list-style-type: none">■ 1209.7 msl (2010) <p>Record Flow (Date)</p> <ul style="list-style-type: none">■ 70,000 cfs (1997) <p>Projected Record Flow (Date)</p> <ul style="list-style-type: none">■ 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>



US Army Corps
of Engineers •
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.</p> <p>Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.</p> <p>Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.</p> <p>24-hr forecast (Williston, ND) Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.</p> <p>Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.</p> <p>Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.</p>	<p>24-hr forecast (Riverdale, ND) Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.</p> <p>Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.</p> <p>Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.</p> <p>24-hr forecast (Washburn, ND) Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in th-storms.</p> <p>Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.</p> <p>Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph.</p>	<p>24-hr forecast (Pierre, SD) Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.</p> <p>Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.</p> <p>Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.</p> <p>Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.</p> <p>Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.</p> <p>Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.</p> <p>Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.</p> <p>Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.</p> <p>Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.</p> <p>Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.</p> <p>Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Omaha	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.</p> <p>Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.</p> <p>Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.</p> <p>Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

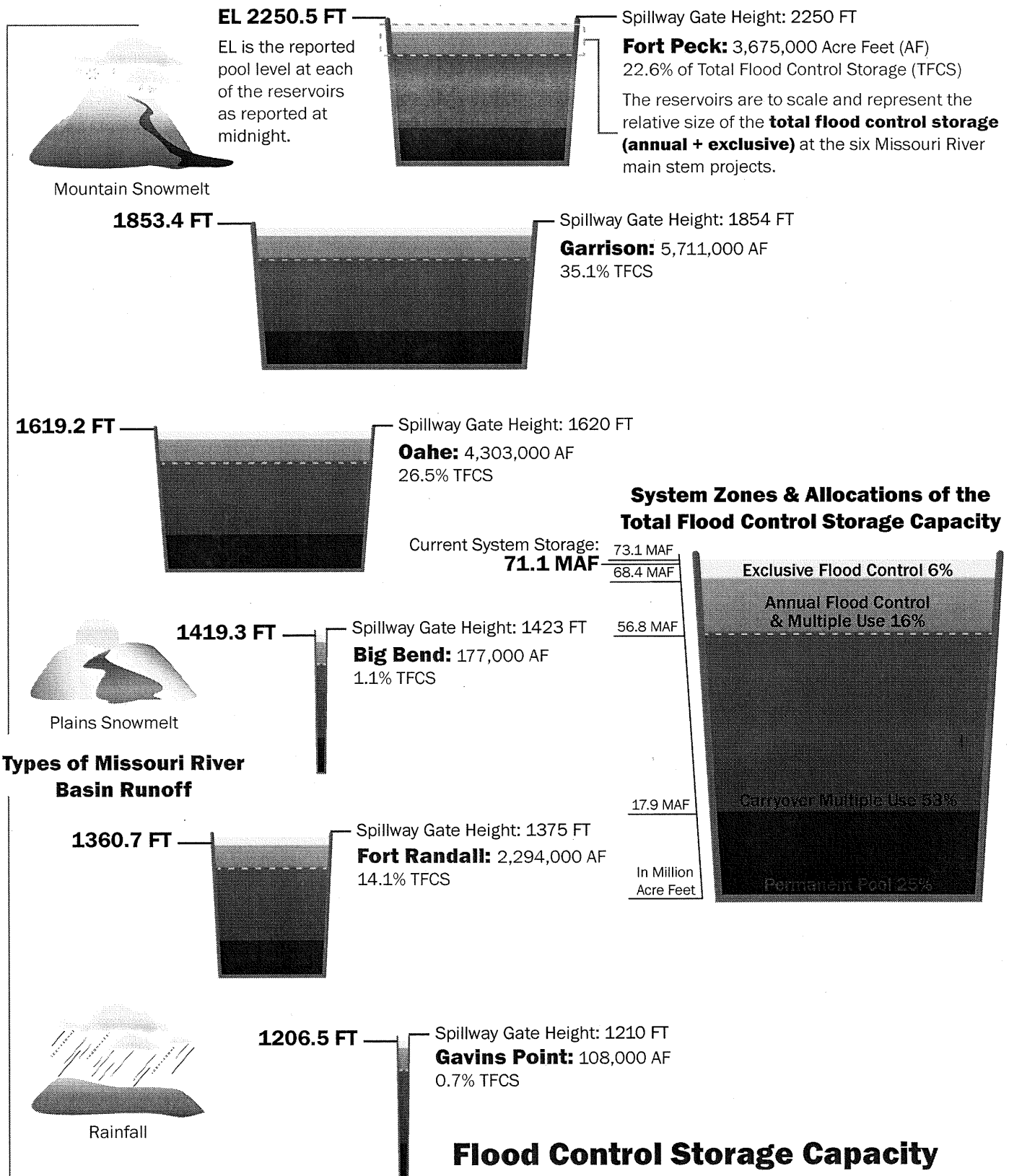
Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Main Stem Reservoir System

Midnight Elevation (EL) Forecast: June 7, 2011 (feet above mean sea level)



[REDACTED] NWO

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 10:43 AM
To: Farhat, Jody S NWD02
Cc: Hofmann, Anthony J COL NWK
Subject: Re: (UNCLASSIFIED)

Thanks

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWK
Cc: Hofmann, Anthony J COL NWK
Sent: Tue Jun 07 07:52:22 2011
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We aren't making worse case predictions; we're just telling folks that 150,000 cfs is our best estimate of the releases that will be necessary. Releases could go higher if conditions in the upper basin deteriorate significantly. We have a lot of runoff built into our forecast, but that doesn't mean things couldn't get worse.

Jody

-----Original Message-----

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:28 AM
To: Farhat, Jody S NWD02
Cc: Hofmann, Anthony J COL NWK
Subject: Re: (UNCLASSIFIED)

What's the largest cfs could be released. Now 150000 cfs and what could be the highest?

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWK
Cc: Hofmann, Anthony J COL NWK
Sent: Tue Jun 07 07:13:26 2011
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The spillway capacity of Gavins Point with the reservoir surcharged to elevation 1221.4 feet (top of exclusive/top of gates is 1210 feet) is 584,000 cfs.

Jody

-----Original Message-----

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:10 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWK; Hofmann, Anthony J COL NWK

Subject:

Question:

What is the largest cfs could be released from Gavins if needed???

Need answer ASAP if you know.

Thanks



Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 10:33 AM
To: Farmer, Monique L NWO; Farhat, Jody S NWD02
Subject: RE: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

I printed out and wrote my comments/suggestions down ... just left them on your chair. My eyes are screen weary!

See you soon.

[REDACTED]
-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 10:23 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD
Subject: RE: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Looks good. One thing - for question #8, I think it would be helpful to point out where we were at the start of the (normal) runoff season, March 1, and stress again that we still had pretty much the full storage capacity of the system available.

See you in a bit.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:12 AM
To: Farmer, Monique L NWO; [REDACTED] NWD
Subject: Questions for Mitzel interview at 11:00 g(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Monique and [REDACTED], I've quickly added answers to Bill Mitzel's list of questions for the interview at 11:00. If you have time, could you read through these and see if there's anything I missed or any clarifications I should make.

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417

[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 10:29 AM
To: McMahon, John R BG NWD
Cc: Blechinger, Erik T NWO; Farhat, Jody S NWD02; [REDACTED] A NWD; [REDACTED] NWD; [REDACTED] NWD; Tipton, Robert A Col NWD; [REDACTED] NWD
Subject: RE: Mississippi/Missouri Rivers Post-Flood Assessment Plan (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir, as I noted, we have this in hands of our Chfs to look at, but in case you want to respond to G2, [REDACTED], [REDACTED], [REDACTED] with initial reaction, here are some of my preliminary thoughts. Welcome others cc'd here to add any comments.

1. This comprehensive framework (CECW, 2 June 11) is generally a good approach with its two part focus on 1) immediate emergency repairs and 2) longer term post flood assessment.
2. Part 1 - we agree the MSC's should lead the efforts to determine immediate actions for system repair. Although the Missouri River flood is in progress, we have submitted initial estimates of funding requirements for the emergency supplemental bill development.
3. Part 2 - while it is appropriate to consider how the Missouri River flood control reservoirs were operated during the Mississippi River flood, it is also appropriate to conduct a separate assessment of the Missouri River flood as noted in the document second paragraph. The Missouri River flood is a distinct event from the earlier Mississippi event, and the present authorities for the Corps projects in the Missouri do not prescribe a coordinated operation for the entire Mississippi River basin.
4. Part 2 scope, tasks, questions - we suggest two PMP's (one for Mississippi and one for Missouri nested under an overall PgMP) that would further develop the specific tasks and activities. Under the Missouri PMP, we see two major efforts: 1) assessment of the 2011 flood fight operation ("Operation Mighty Mo"), including reservoir management, performance of physical structures and systems (dams, conveyance channels, levees, etc.), flood fight execution, etc; and 2) analysis of needs for improvements that can be made within existing authorities or requiring new authority. For example, the Missouri basin hydrology experienced in 2011 (and climate change) may suggest revisions to the water control manual (Missouri River Master Manual), which in turn, could raise questions about the balance of purposes/outputs under present authorities.
5. We agree the operational decision-making process evaluation inherent in Part 2 would benefit by qualified experts from outside the AOR.
6. Management structure - we support the use of a high level Steering Committee of USACE leaders, with product delivery responsibility at MSCs.
7. Schedule - an aggressive schedule is desired, however items 4-6, page 6 are unrealistic given the ongoing Missouri operation which we expect to continue into August and possibly longer. Recommend a small group of HQ and MSC reps be established (PDT) in the interim to further develop the overall framework and scope in a PgMP.

BREAK

As I ponder this and as we've discussed, there is a huge effort with many components likely required and which will become clearer as the OMM (Operation Mighty Mo) unfolds. We need to be thinking about our own NWD structure, PDTs/manpower resourcing, and funding, never mind the details of the effort, to carry out these post flood assessment studies. I'll keep on it and will huddle with Erik, Jody and team in Omaha to discuss further. MTF

VR

Witt

-----Original Message-----

From: McMahon, John R BG NWD

Sent: Saturday, June 04, 2011 1:25 PM

To: [REDACTED] NWD

Subject: Fw: Mississippi/Missouri Rivers Post-Flood Assessment Plan

[REDACTED]
Please review. Thanks.

Vr/john

----- Original Message -----

From: Grisoli, William T MG HQ02

To: Walsh, Michael J MG MVD; Peabody, John W MG LRDOR; McMahon, John R BG NWD; Kula, Thomas BG SWD; Drolet, John D. COL LRDOR

Cc: Temple, Bo M MG HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED]

[REDACTED] HQ02

Sent: Sat Jun 04 12:28:54 2011

Subject: Mississippi/Missouri Rivers Post-Flood Assessment Plan

Commanders:

For the past two weeks, we have been investigating ways to initiate a comprehensive assessment and evaluation to repair and restore the MR&T System. We plan to have two components of this overall assessment: (1) Immediate action supporting repairing the overall system to pre-flood condition (one portion would consider the entire Mississippi River basin, and a separate review will be done of the upcoming Missouri River flood); and (2) Conducting a post flood assessment of system performance, including the operational decision-making process, with an outlook towards improving system operation. The entire effort will be guided by a Steering Committee composed of HQUSACE and MSC leaders (see the last page of the attached file for the proposed organization of the steering committee.).

The effort will utilize current authorities, policies, procedures, tools and terminology, and be conducted by USACE staff, supplemented by contracted staff, as appropriate, and generally follow the robust review and independence tenets of EC 1165-2-209. We are still working on a "straw-man" PMP that would guide the field's efforts and the details on staffing requirements.

I would appreciate your critical review and thoughts on this draft proposal. Resetting the system (emergency repairs) for the next high water period is a top priority of the HQs team followed by a deliberate, operational assessment of our system.

Please forward comments to [REDACTED], [REDACTED], [REDACTED], [REDACTED], and I.

V/R,
Bill

Classification: UNCLASSIFIED
Caveats: NONE

From: McMahon, John R BG NWD
Sent: Tuesday, June 07, 2011 10:26 AM
To: Farhat, Jody S NWD02; Blechinger, Erik T NWO; Anderson, G Witt NWD
Subject: Items to takeaway Wed

Jody:

Before I depart tomorrow nite, I'd like to get my own copy of the MR Master Manual and relevant appendices to read and study. Also, tables of data showing pool levels and releases at each reservoir from last summer's high point till now. Doable? Thanks.

Vr/John McMahon

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 10:23 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD
Subject: RE: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Looks good. One thing - for question #8, I think it would be helpful to point out where we were at the start of the (normal) runoff season, March 1, and stress again that we still had pretty much the full storage capacity of the system available.

See you in a bit.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:12 AM
To: Farmer, Monique L NWO; [REDACTED] NWD
Subject: Questions for Mitzel interview at 11:00 g(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Monique and [REDACTED], I've quickly added answers to Bill Mitzel's list of questions for the interview at 11:00. If you have time, could you read through these and see if there's anything I missed or any clarifications I should make.

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

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[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

NWO

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 10:17 AM
To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; A NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] K NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] A NWK; [REDACTED] NWO; [REDACTED] M NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] RC; Lazo, Carlos J SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL
Cc: Hollandsworth, Margaret A NWO
Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)
Attachments: Flood_Fight_Storyboard_7JUN.docx

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl
* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)
* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)
* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

- * 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

- * 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)

4 (Fort Yates, ND)

4 (Williston, ND)

1 (Minot, ND)

3 (Pierre, SD)

1 (Kansas City, MO)

5 (Sioux City, IA)

4 (Dakota Dunes, SD)

6 (S. Sioux City, NE)

2 (Missouri River Survey)

1 (Decatur, NE)

3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE



US Army Corps
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Omaha District

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck (In operation since 1940)	Garrison (In operation since 1955)	Oahe (In operation since 1962)	Big Bend (In operation since 1964)	Fort Randall (In operation since 1953)	Gavins Point (In operation since 1955)
Midnight Elevation <ul style="list-style-type: none"> 2250.5 ft msl 24-hr Change (+0.0ft) Daily Avg. Inflow <ul style="list-style-type: none"> 51,000 cfs (6 Jun) 52,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 43,000 cfs (6 Jun) 36,900 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 2234 ft msl – 2246 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 2246 ft msl – 2250 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 2250 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Peak release will be 50,000 cfs by no later than mid June. Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised. Record Pool Elevation (Year) <ul style="list-style-type: none"> 2251.6 msl (1975) Record Flow (Year) <ul style="list-style-type: none"> 35,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none"> 50,000 cfs (Mid June) 	Midnight Elevation <ul style="list-style-type: none"> 1853.4 ft msl 24-hr Change (-0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none"> 97,000 cfs (6 Jun) 100,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 118,300 cfs (6 Jun) 115,300 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 1837.5 ft msl – 1850 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 1850 ft msl – 1854 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 1854 ft msl River Stage (Bismarck) <ul style="list-style-type: none"> 17.01 (0515 CDT 7 Jun) Flood stage – 16 ft 17.23 (0715 CDT 6 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised. Record Pool Elevation (Year) <ul style="list-style-type: none"> 1854.8 msl (1975) Record Flow (Year) <ul style="list-style-type: none"> 65,000 cfs (1975) Projected Record Flow (Date) <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	Midnight Elevation <ul style="list-style-type: none"> 1619.2 ft msl 24-hr Change (+0.1 ft) Daily Avg. Inflow <ul style="list-style-type: none"> 137,000 cfs (6 Jun) 133,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 137,600 cfs (6 Jun) 126,800 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 1607.5 ft msl – 1620 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 1617 ft msl – 1620 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 1620 ft msl River Stage (Pierre) <ul style="list-style-type: none"> 18.34 (0531 CDT 7 Jun) Flood stage – 15 ft 18.07 (0730 CDT 6 Jun) Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will peak within a foot of the top of the spillway gates at 1619 feet. Record Pool Elevation (Year) <ul style="list-style-type: none"> 1618.7 msl (1995) Record Flow (Year) <ul style="list-style-type: none"> 59,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	Midnight Elevation <ul style="list-style-type: none"> 1419.3 ft msl 24-hr Change (-0.0 ft) Daily Avg. Inflow <ul style="list-style-type: none"> 129,000 cfs (6 Jun) 116,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 128,200 cfs (6 Jun) 114,200 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 1420 ft msl – 1423 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 1422 ft msl – 1423 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 1423 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Reservoir will remain essentially level at 1420 feet. Record Pool Elevation (Year) <ul style="list-style-type: none"> 1422.1 msl (1991) Record Flow (Date) <ul style="list-style-type: none"> 74,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	Midnight Elevation <ul style="list-style-type: none"> 1360.7 ft msl 24-hr Change (+0.2 ft) Daily Avg. Inflow <ul style="list-style-type: none"> 133,000 cfs (6 Jun) 120,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 121,600 cfs (6 Jun) 112,400 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 1350 ft msl – 1375 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 1365 ft msl – 1375 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 1375 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none"> 1372.2 msl (1997) Record Flow (Date) <ul style="list-style-type: none"> 67,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none"> 150,000 cfs (Mid June) 	Midnight Elevation <ul style="list-style-type: none"> 1206.5 ft msl 24-hr Change (+0.2 ft) Daily Avg. Inflow <ul style="list-style-type: none"> 118,000 cfs (6 Jun) 104,000 cfs (5 Jun) Daily Avg. Release <ul style="list-style-type: none"> 115,500 cfs (6 Jun) 101,900 cfs (5 Jun) Annual Flood Ctrl & Multi-Use Zone (Elevation) <ul style="list-style-type: none"> 1204.5 ft msl – 1210 ft msl Exclusive Flood Ctrl Zone (Elevation) <ul style="list-style-type: none"> 1208 ft msl – 1210 ft msl Top of Spillway Gates <ul style="list-style-type: none"> 1210 ft msl Planned Scheduled Releases (Subject to Change) <ul style="list-style-type: none"> Releases will be stepped up to 150,000 cfs by mid June. Record Pool Elevation (Year) <ul style="list-style-type: none"> 1209.7 msl (2010) Record Flow (Date) <ul style="list-style-type: none"> 70,000 cfs (1997) Projected Record Flow (Date) <ul style="list-style-type: none"> 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>



US Army Corps
of Engineers®
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
<p>24-hr forecast (Glasgow, MT) Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.</p> <p>Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.</p> <p>Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.</p> <p>24-hr forecast (Williston, ND) Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.</p> <p>Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.</p> <p>Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.</p>	<p>24-hr forecast (Riverdale, ND) Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.</p> <p>Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.</p> <p>Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.</p> <p>24-hr forecast (Washburn, ND) Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in th-storms.</p> <p>Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.</p> <p>Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph.</p>	<p>24-hr forecast (Pierre, SD) Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.</p> <p>Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.</p> <p>Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.</p> <p>24-hr forecast (Ft. Pierre, SD) Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.</p> <p>Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.</p> <p>Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.</p>	<p>24-hr forecast (Lower Brule, SD) Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.</p> <p>Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.</p> <p>Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.</p>	<p>24-hr forecast (Chamberlain, SD) Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.</p> <p>Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.</p> <p>Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.</p>	<p>24-hr forecast (Yankton, SD) Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.</p> <p>Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.</p> <p>24-hr forecast (Sioux City, IA) Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.</p> <p>Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.</p>

Source of information: <http://www.weather.gov>



US Army Corps
of Engineers
Omaha District

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

Fort Peck	Garrison	Oahe	Big Bend	Fort Randall	Gavins Point
	<p>24-hr forecast (Bismarck/Mandan, ND) Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.</p> <p>Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.</p> <p>Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.</p>				<p>24-hr forecast (Omaha, NE) Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.</p> <p>Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.</p> <p>Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.</p>

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>



Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)	3 (Pierre, SD)	2 (Missouri River Survey)
9 (Lander, WY)	1 (Kansas City, MO)	1 (Decatur, NE)
14 (Bismarck, ND)	5 (Sioux City, IA)	3 (Offutt, NE)
4 (Fort Yates, ND)	4 (Dakota Dunes, SD)	6 (North Platte, NE)
4 (Williston, ND)	6 (S. Sioux City, NE)	4 (Roundup, MT)
1 (Minot, ND)		1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,
650K due in from NWS

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 10:07 AM
To: Farhat, Jody S NWD02; Blechinger, Erik T NWO
Subject: Talking Points for 2011 Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody/Erik,

Please review and provide comments ... I'd like to get this distributed today. As you can see by the two highlighted areas, I need to continue working that data (any suggestions are welcome).

[REDACTED]
[REDACTED]
Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: William Lay [redacted]
Sent: Tuesday, June 07, 2011 9:43 AM
To: Farhat, Jody S NWD02
Subject: Teacup

Dear Jody,

We can't expect you to handle this 44 MAF flood with only 11.6 MAF of storage.

You will be surprised to learn that I currently feel we should plan for highest, not the average inflows.

Maybe others will begin to understand your problems.

You have only 25% of this year's necessary storage in the system.

You can't be expected to handle a flood of this size with a teacup.

If they want to handle large floods they have got to give the Corps the proper equipment.

Bill Lay

[REDACTED] NWO

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:28 AM
To: Farhat, Jody S NWD02
Cc: Hofmann, Anthony J COL NWK
Subject: Re: (UNCLASSIFIED)

What's the largest cfs could be released. Now 150000 cfs and what could be the highest?

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWK
Cc: Hofmann, Anthony J COL NWK
Sent: Tue Jun 07 07:13:26 2011
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The spillway capacity of Gavins Point with the reservoir surcharged to elevation 1221.4 feet (top of exclusive/top of gates is 1210 feet) is 584,000 cfs.

Jody

-----Original Message-----

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:10 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWK; Hofmann, Anthony J COL NWK
Subject:

Question:

What is the largest cfs could be released from Gavins if needed???

Need answer ASAP if you know.

Thanks

Des

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 9:21 AM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: RE: Request from Senator Nelson's Office for copy of briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks Jody.

Maggie - Go ahead and send it.

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
402-[REDACTED] Office
402-[REDACTED] Blackberry
[\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 9:11 AM
To: [REDACTED] NWO
Cc: Oldham, Margaret NWO
Subject: RE: Request from Senator Nelson's Office for copy of briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I don't have a problem with it going to the senator if you don't.

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 9:07 AM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: FW: Request from Senator Nelson's Office for copy of briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Are you ok with this going to the Senator?

Thanks,
[REDACTED]
[REDACTED]

Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
402-[REDACTED] Office
402-[REDACTED] Blackberry
[REDACTED]@usace.army.mil

-----Original Message-----

From: Oldham, Margaret NWO
Sent: Tuesday, June 07, 2011 8:52 AM
To: [REDACTED] NWO
Subject: Request from Senator Nelson's Office for copy of briefing (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I don't see any issues with this. Do you? I sent a copy of the presentation (attached) to Sen. Nelson's Northeast Nebraska Field Rep (Zach Nelson) per his request Sunday while he they here. What is our preferred option? The only issue I see is that some of the slides will be out of date by the time they post them.

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

-----Original Message-----

From: Eckstein, Ron (Ben Nelson) [<mailto:Ron.Eckstein@bennelson.senate.gov>]
Sent: Monday, June 06, 2011 2:14 PM
To: Oldham, Margaret NWO
Subject: FW: POWERPOINT: From Corps Omaha District - Senator Nelson briefing , June 5, 2011 (UNCLASSIFIED)

Hello, Ms. Oldham.

Senator Nelson and his staff sincerely appreciate the briefing from the U.S. Corps of Engineers in Omaha yesterday.

We are wondering if we could use some or all of the Corps' PowerPoint from yesterday (attached) on our website. Another option would be for us to post a link to anywhere you have the presentation up Online, if you've got it posted somewhere.

Please let me know what would be appropriate.

Thanks.
Ron

Ron Eckstein
Press Secretary

Nebraska's Senator Ben Nelson
720 Hart Senate Office Building
Washington, DC 20510
(202) 224-6551

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

-----Original Message-----

From: Oldham, Margaret NWO
Sent: Monday, June 06, 2011 10:20 AM
To: Zach.Nelson@bennelson.senate.gov
Subject: From Corps Omaha District - Senator Nelson briefing , June 5, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Zach, attached is a copy of the briefing which was given by the Corps to Sen. Nelson here at the Edward Zorinsky Federal Building in Omaha yesterday.

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 9:20 AM
To: Blechinger, Erik T NWO; Farhat, Jody S NWD02
Subject: CG message for tonight's call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Erik/Jody,

I have tweaked the message slightly on the Master Manual for the boss to use in tonight's stakeholder call ... tried to put it a bit in "his voice" and consistent with some direction he provided on the strategic messaging last night.

I welcome your inputs, then I can finalize it for you to send to the boss Erik.

[REDACTED]

We have received numerous questions about how we operate our reservoir releases. I am sure we will continue to receive these throughout and most certainly after this flooding event. I encourage this discussion ... The Corps is entrusted to manage one of our nation's greatest natural resources and it is our charge to do that in the best interest of all the stakeholders throughout the basin.

I want to remind people that the Missouri River Mainstem Reservoir System, which includes 6 dams, is operated in accordance with the Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

Again, I realize this flooding event will undoubtedly reopen public discussion of the Master Manual. I can assure you the Corps is committed to operating this system in the best interests of our country and based on the direction of the people affected the most -- those who live in the Upper and Lower Missouri River Basin.

[REDACTED]

Attorney/Advisor, U.S. Army Corps of Engineers Office of Counsel, Northwestern Division, Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER FOIA OR OUTSIDE USACE)

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 9:18 AM
To: [REDACTED] NWO; [REDACTED] NWD02; Farhat, Jody S NWD02; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]
NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

FYI

-----Original Message-----

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 8:56 AM
To: Farhat, Jody S NWD02
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Jody,

What causes this? Any need for concerns?

[REDACTED]

-----Original Message-----

From: Oldham, Margaret NWO
Sent: Tuesday, June 07, 2011 8:49 AM
To: DLL-NWK-MRJIC
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

For your situational awareness in case you get calls...

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 8:23 AM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWO; Schenk, Kathryn M NWO
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

All: Please see pic on the link below regarding the whirlpool in Oahe Reservoir.

http://www.disasterrecovery.sd.gov/photogal/Pierre/gallery_Jun6.aspx

[REDACTED] and Oahe Staff: If possible, need to have area marked to restrict access.

-----Original Message-----

From: [REDACTED] NWO

Sent: Tuesday, June 07, 2011 7:44 AM

To: [REDACTED] NWO; 'Mary Welsh'; [REDACTED] NWO; [REDACTED] NWO; 'Colleen'; 'dan'; 'Flory'; 'greg'; 'Karen'; 'katie'; 'kevin'; 'nina'; 'Pat & Thereasa'; 'Trudy'; 'kathy'; 'Kathy2'

Subject: FW: Whirlpool above Oahe

This is kind of interesting.

This whirlpool apparently formed above the entrance to the discharge tunnels at the west end of the dam.

http://www.disasterrecovery.sd.gov/photogal/Pierre/gallery_Jun6.aspx

Timothy L. Welsh, P.E.

Operations Division - Maintenance Branch Omaha District Corps of Engineers
402-995-2574

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

[REDACTED] NWO

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:10 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWK; Hofmann, Anthony J COL NWK

Question:

What is the largest cfs could be released from Gavins if needed???

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Thanks

[REDACTED] NWO

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Sent: Tuesday, June 07, 2011 9:07 AM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: FW: Request from Senator Nelson's Office for copy of briefing (UNCLASSIFIED)
Attachments: Sen-Nelson_5_Jun_2011.pptx

Classification: UNCLASSIFIED
Caveats: NONE

Are you ok with this going to the Senator?

Thanks,
[REDACTED]

[REDACTED]
Chief, Readiness Branch
U.S. Army Corps of Engineers - Omaha District
1616 Capitol Ave., Ste 9000
Omaha, NE 68102
402-[REDACTED] Office
402-[REDACTED] Blackberry
[REDACTED]@usace.army.mil

-----Original Message-----

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To: [REDACTED] NWO
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Classification: UNCLASSIFIED
Caveats: NONE

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margaret.e.oldham@usace.army.mil

-----Original Message-----

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Sent: Monday, June 06, 2011 2:14 PM
To: Oldham, Margaret NWO

Subject: FW: POWERPOINT: From Corps Omaha District - Senator Nelson briefing , June 5, 2011
(UNCLASSIFIED)

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We are wondering if we could use some or all of the Corps' PowerPoint from yesterday (attached) on our website. Another option would be for us to post a link to anywhere you have the presentation up Online, if you've got it posted somewhere.

Please let me know what would be appropriate.

Thanks.

Ron

Ron Eckstein
Press Secretary

Nebraska's Senator Ben Nelson
720 Hart Senate Office Building
Washington, DC 20510
(202) 224-6551

VR

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Sent: Monday, June 06, 2011 10:20 AM
To: Zach.Nelson@bennelson.senate.gov
Subject: From Corps Omaha District - Senator Nelson briefing , June 5, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

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VR

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Omaha District, USACE
Office: (402) 995-2416
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margaret.e.oldham@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

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Caveats: NONE

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Caveats: NONE

2011 FLOOD EVENT

OMAHA DISTRICT

SENATOR NELSON BRIEFING

5 JUNE 2011



US Army Corps of Engineers
BUILDING STRONG®



Background - How we got here

- Huge rain event last month in eastern Montana, northern Wyoming and the western Dakotas.
 - ▶ As much rain in May as this region gets in a normal year
 - ▶ 300 - 600 percent of normal
- Runoff from the rain has used up much of the storage we intended to utilize to manage the snowmelt runoff.
- Snowpack peaked late and has only just begun to runoff into the system.
- Initial release forecasts were looking at short term, immediate changes we needed to handle the rainfall event.
- Now we've had a chance to look at the longer range forecast to determine what we need to do to manage the snowmelt runoff that is poised to come into the reservoir system



Missouri River Regulation

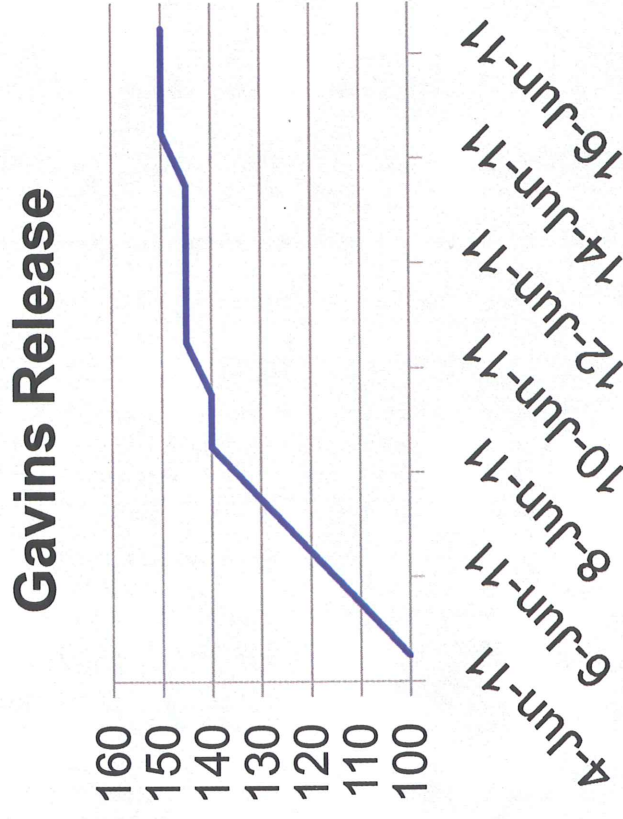
Jody Farhat – Chief Missouri River Basin Water Management



Current Conditions and Forecast

► Gavins Point – forecast updated daily

- 110,000 cfs – today
- 120,000 cfs – 6 June
- 130,000 cfs – 7 June
- 140,000 cfs – 8-9 June
- 145,000 cfs – 10-13 June
- 150,000 cfs – 14 June...

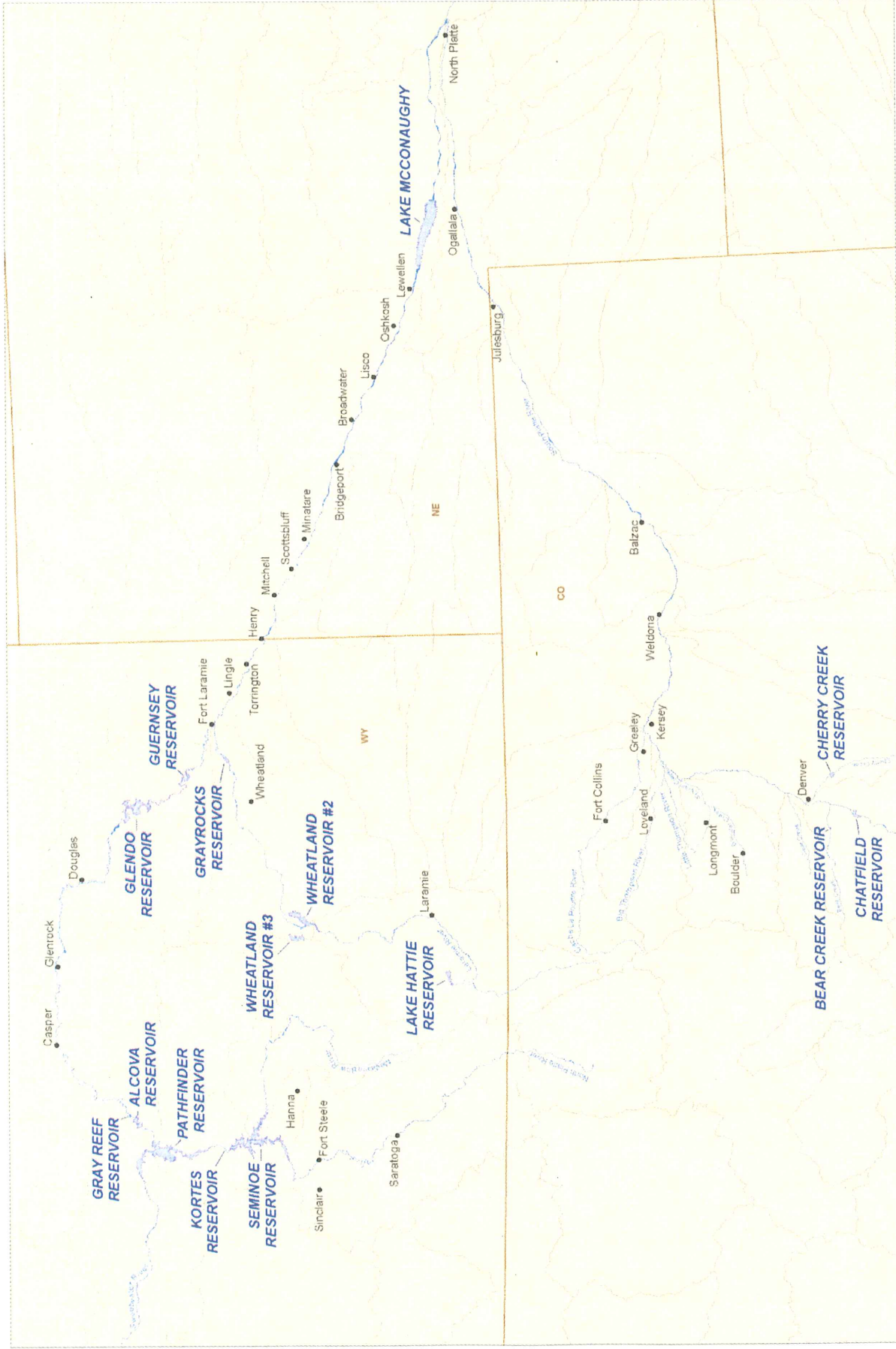


North Platte Basin

Kellie Bergman

Chief of Water Control Section
Engineering Branch





GIS Service Center
CENVO-ED-2D

US Army Corps of Engineers
Corps District

Project No. 111
Map No. 111
Scale: 1:100,000
Date: 11/11/11
Author: [Name]
Editor: [Name]
Reviewer: [Name]
Approver: [Name]

This map was prepared by the US Army Corps of Engineers, Denver District, for the purpose of providing information on the location of reservoirs and cities in the North and South Platte River basins. The map is not to be used for any other purpose without the written permission of the Corps of Engineers.

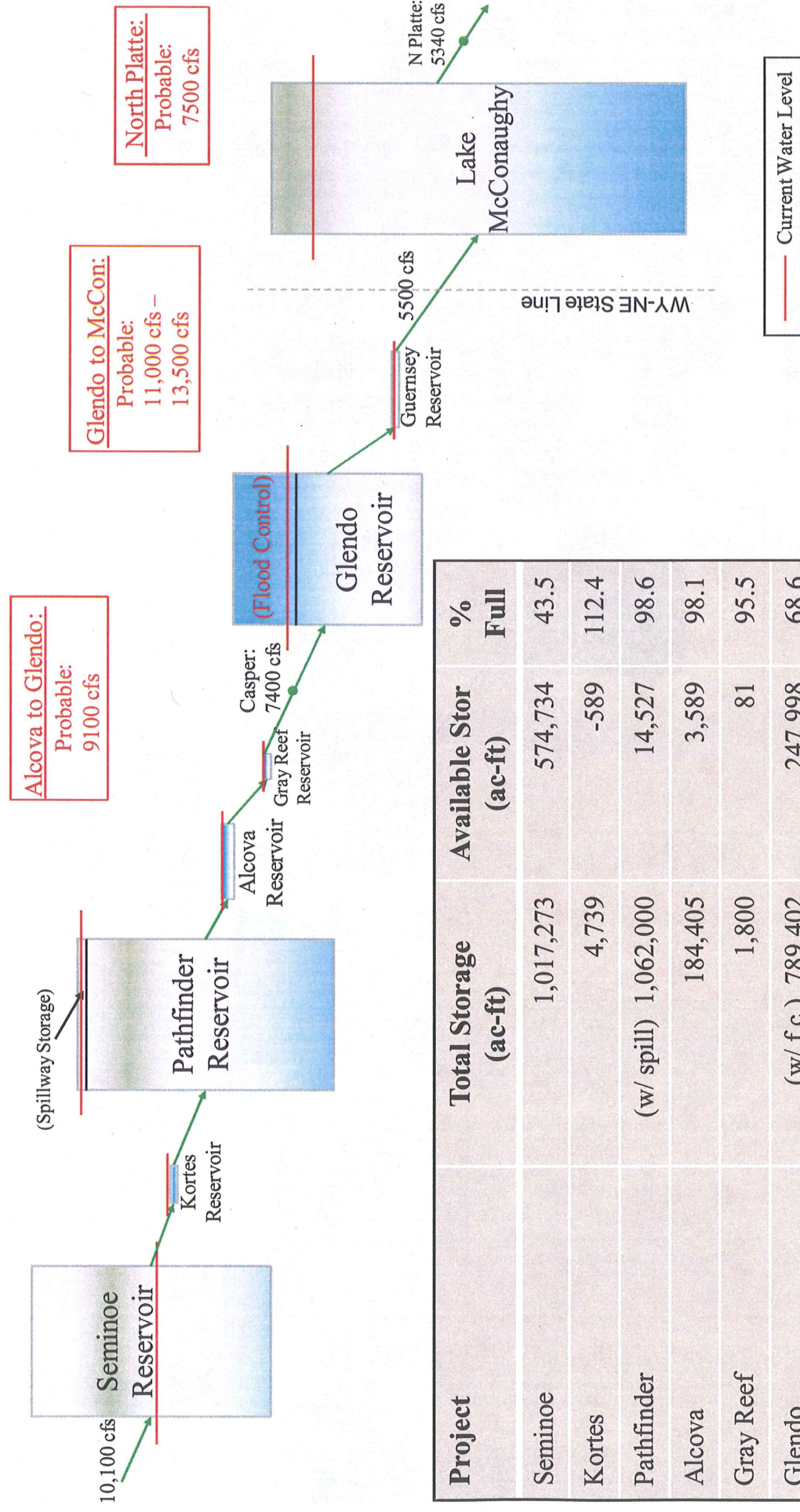
North and South Platte Rivers



- City
- River Basin
- State
- Lake
- River



North Platte River Reservoir System Storage



The shapes are to scale and represent the relative size of the total storage in the North Platte Basin

Project	Total Storage (ac-ft)	Available Stor (ac-ft)	% Full
Seminole	1,017,273	574,734	43.5
Kortes	4,739	-589	112.4
Pathfinder	(w/ spill) 1,062,000	14,527	98.6
Alcova	184,405	3,589	98.1
Gray Reef	1,800	81	95.5
Glendo	(w/ f.c.) 789,402	247,998	68.6
Guernsey	45,612	18,370	59.7
TOTAL SYSTEM	3,095,231	858,710	72.3
McConaughy (CNPPID)	(el. 3267) 1,805,000	128,600	92.9

Probable COE Forecast and Tested Capacity

	Alcova to Glendo	Glendo to Whalen	Whalen to State Line	State Line to McConaughy	North Platte, NE
Probable peak flow	9,100 cfs	8,000 cfs	11,000 cfs ⁽¹⁾	13,500 cfs ⁽²⁾	7,500 ⁽³⁾
Tested Capacity	7,000 cfs	9,000 cfs	7,000 cfs	6,000 cfs	5,420 cfs ⁽⁴⁾

(1) 11,000 cfs at Torrington, WY and Henry, NE

(2) 12,000 cfs at Mitchell, NE; 13,000 cfs at Bridgeport, NE; 13,500 cfs at Lewellen, NE

(3) Probable flow received from CNPPID

(4) Flow through North Platte as of 4 June 2011

System Inflow Volume (April-July)

- 2010 actual inflow volume = 1.64 MAF
- 1983 actual inflow volume = approx 2.14 MAF
- 30 year average inflow volume = 0.904 MAF
- USBR 2011 **previous** inflow volume forecast = 2.27 MAF
- **USBR 2011 inflow volume forecast = 2.37 MAF**



BUILDING STRONG®

South Platte River Conditions

- Cherry Creek, Bear Creek and Chatfield (Tri-Lakes) have available flood control pool storage for snow melt
- Downstream Tri-Lakes on the Cache La Poudre and Big Thompson Rivers no flood control reservoirs
- Dry conditions in the Colorado plains
- Water right diversions expected on the South Platte upstream of North Platte, NE
- If wet conditions begin, diversions will not be taken and larger flows on the South Platte are expected
- N. Platte, NE susceptible to rain events when snow melt reaches the city

Timing Snow Melt:

- Average snow melt
 - 3-4th week of June snow melt at N. Platte, NE
- Above normal snow melt
 - 3rd week of June snow melt at N. Platte, NE

NWS Probabilistic Flows (no diversion at Korty Dam):

N. Platte, NE – 50% 4,000 cfs; 10% 9000 cfs



BUILDING STRONG®

Emergency Operations Nebraska

Ryan Buckley, Acting Chief of Emergency
Management



Nebraska

- ▶ **Public Law 84-99**
- ▶ **Flood Control and Coastal Emergencies Authority (FCCE)**
- ▶ **Protect Public Infrastructure**
- ▶ **When the flooding is done, it will be a challenge to repair the infrastructure before next flood season**



Nebraska

- ▶ Resources Deployed
 - 190,000 sandbags
 - 5,674 linear feet of HESCO (innovative flood fight structure)
 - 157 rolls of 100'x20' plastic sheeting
 - 3 pumps



Nebraska

► North Platte

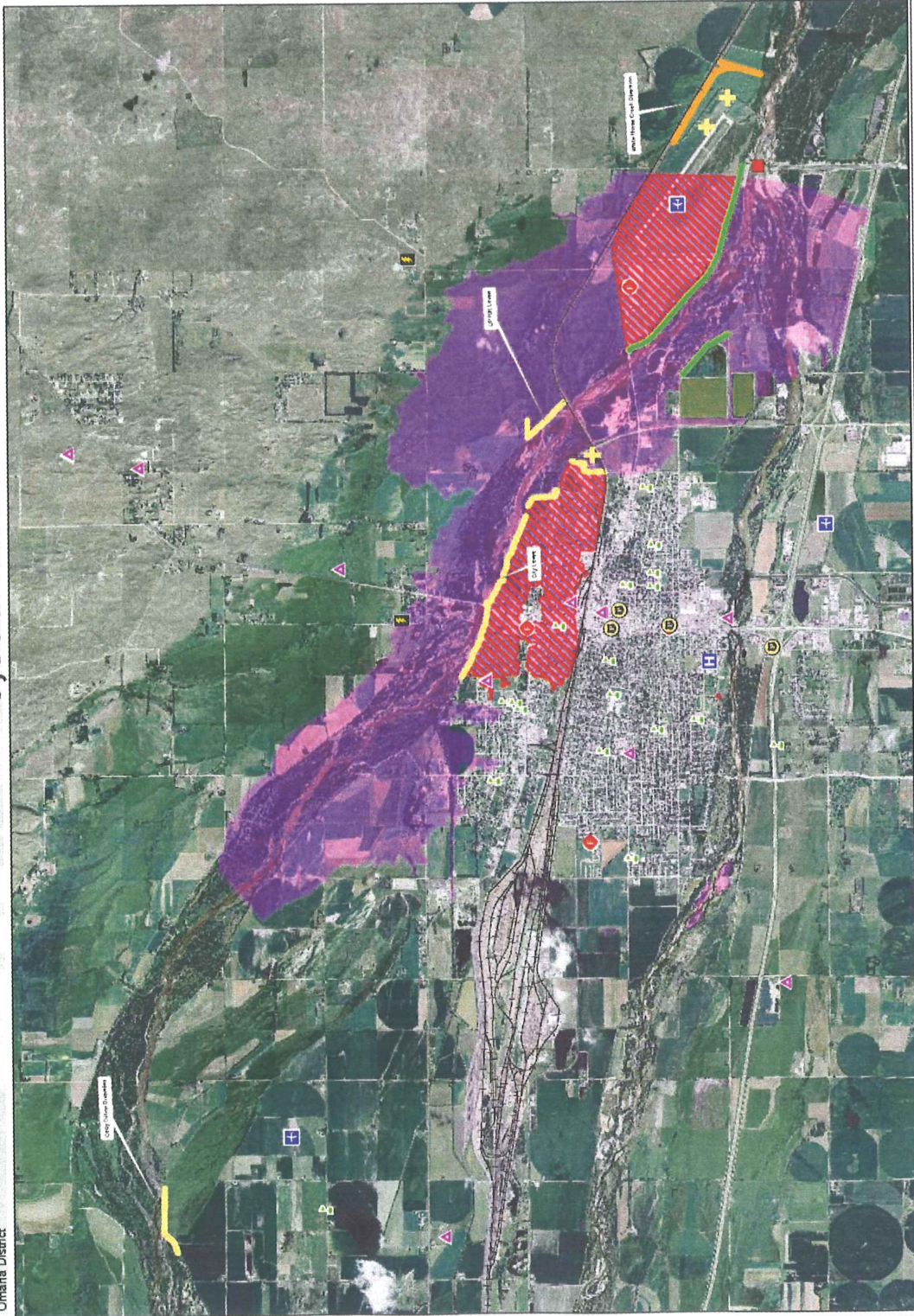
- White Horse Creek Diversion - Awarded \$195,000 contract to Cement Products Inc. of North Platte, NE on 28 May 2011.
- City Levee - Awarded \$1,500,000 contract to Cement Products Inc. of North Platte, NE on 31 May 2011. Construction will be completed 5 June 2011.
- Sewage Lift Station contract - Awarded \$50,000 contract to Perrett Construction of Valentine, NE on 31 May 2011. Construction complete.
- Cody Dillion Diversion – Awarded \$202,000 contract to Evroworks of Omaha, NE on 3 June 2011. Construction will be completed 5 June 2011.



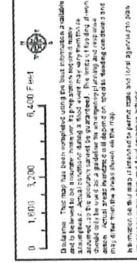
North Platte, NE - Potential Inundation 9,000 cfs

**US Army Corps
of Engineers**
Omaha District

4 Jun 2011
@
1100 HRS



- | | |
|--|--|
| <ul style="list-style-type: none"> Ring Levees City Levee Diversion Embankment Areas of Reduced Risk Potential Inundation Area | <ul style="list-style-type: none"> Dams Airports/Heliports Police Stations Communication Facilities Fire Stations Hospitals Schools Electric Substations Railroad |
|--|--|



Potential Inundation
(includes current tributary flows)
Spring 2011 Flood
Date: 30 May 2011 - Version 1

Nebraska

► South Sioux City

- Awarded \$1,675,000 contract to ME Collins of Wahoo, NE on 2 Jun 11
- Contractor has mobilized and has begun operations. Contractor is working 24 hour operation.
- The city has identified additional potential low spots that may require additional work effort. Engineering is evaluating.
- Project consists of six (6) segments of approximately 11,000 LF of embankments.



South Sioux City, NE

Segment	Description	Contract	Construction Material	Levee Height	Levee Length	Construction End Date (ESTIMATED)	Percent Complete
		Status					
1	Golf Road just West of Elgin Avenue	No Work	Clay	Varies from 3' down to 1'	1,800	7-Jun-11	0
2	Golf course and farm field just North of Golf Road	Placing levee Embankment	Clay	Varies from 10' down to 1'	5,600	6-Jun-11	40%
3	Driveway area North of Golf Road	Placing levee Embankment	Clay	1'	100	4-Jun-11	100%
4	Levee North of Golf Road	No Work	Clay	1'	200	5-Jun-11	0
5	West 3 Street and farm field	Placing levee Embankment	Clay	Varies from 10' down to 1'	2,200	6-Jun-11	25%
6	County Road, G Avenue	No Work	Clay	1'	600	7-Jun-11	0



Nebraska

South Sioux City – Moving Dirt

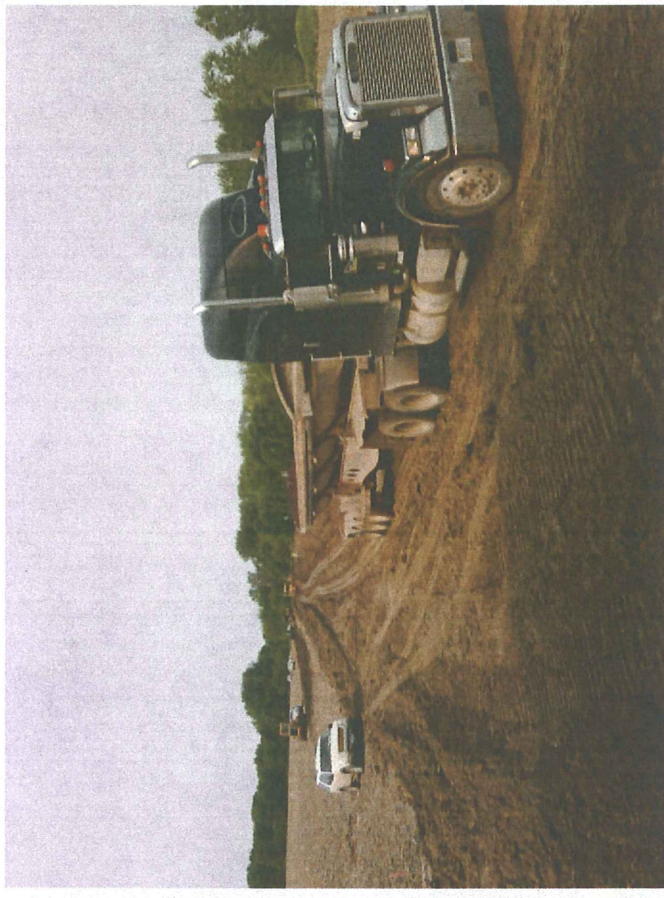


Nebraska

South Sioux City



Segment 2 – Golf Course



Segment 5



BUILDING STRONG®

Nebraska

South Sioux City



Borrow Pit



Sand Bags



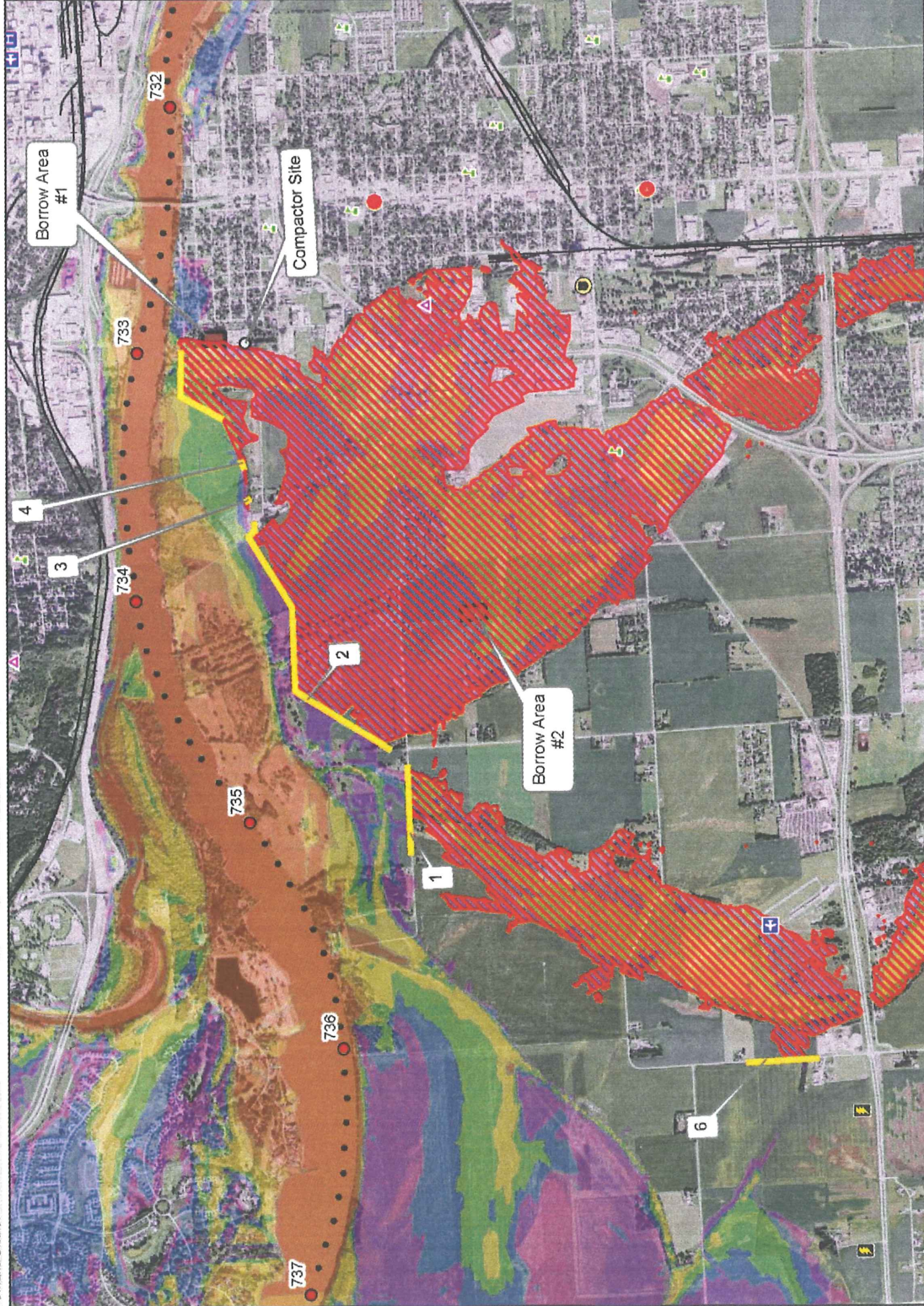
BUILDING STRONG®



US Army Corps
of Engineers
Omaha District

South Sioux City, Nebraska - 150,000 cfs Projected Inundation

3 June 2011
@
1900 HRS



Nebraska

➤ Dakota City

- ▶ Contract awarded to Niewohner Construction, Inc of Onawa, IA on 3 Jun 11 for \$201,600.
- ▶ 700' temporary emergency levee to protect the waste water treatment plant located west of the Missouri River in Dakota City, NE.
- ▶ A pre-construction conference was held at 9:00AM, 4 Jun 11.
- ▶ Construction is underway and scheduled to be completed by 7 June 11.
- ▶ Some flood elevation error calculations were discovered that will require a cost modification to raise the elevation approximately 1.4' and extend the levee approximately 100 feet. Engineering is working the modification.

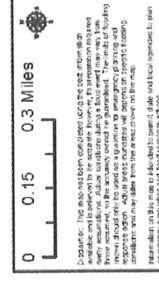
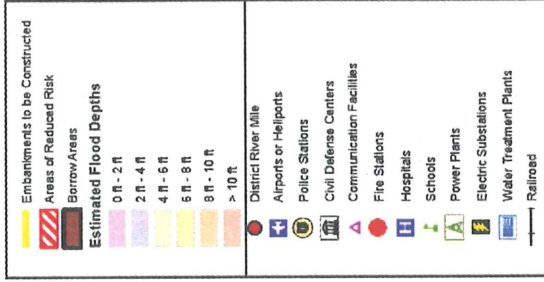
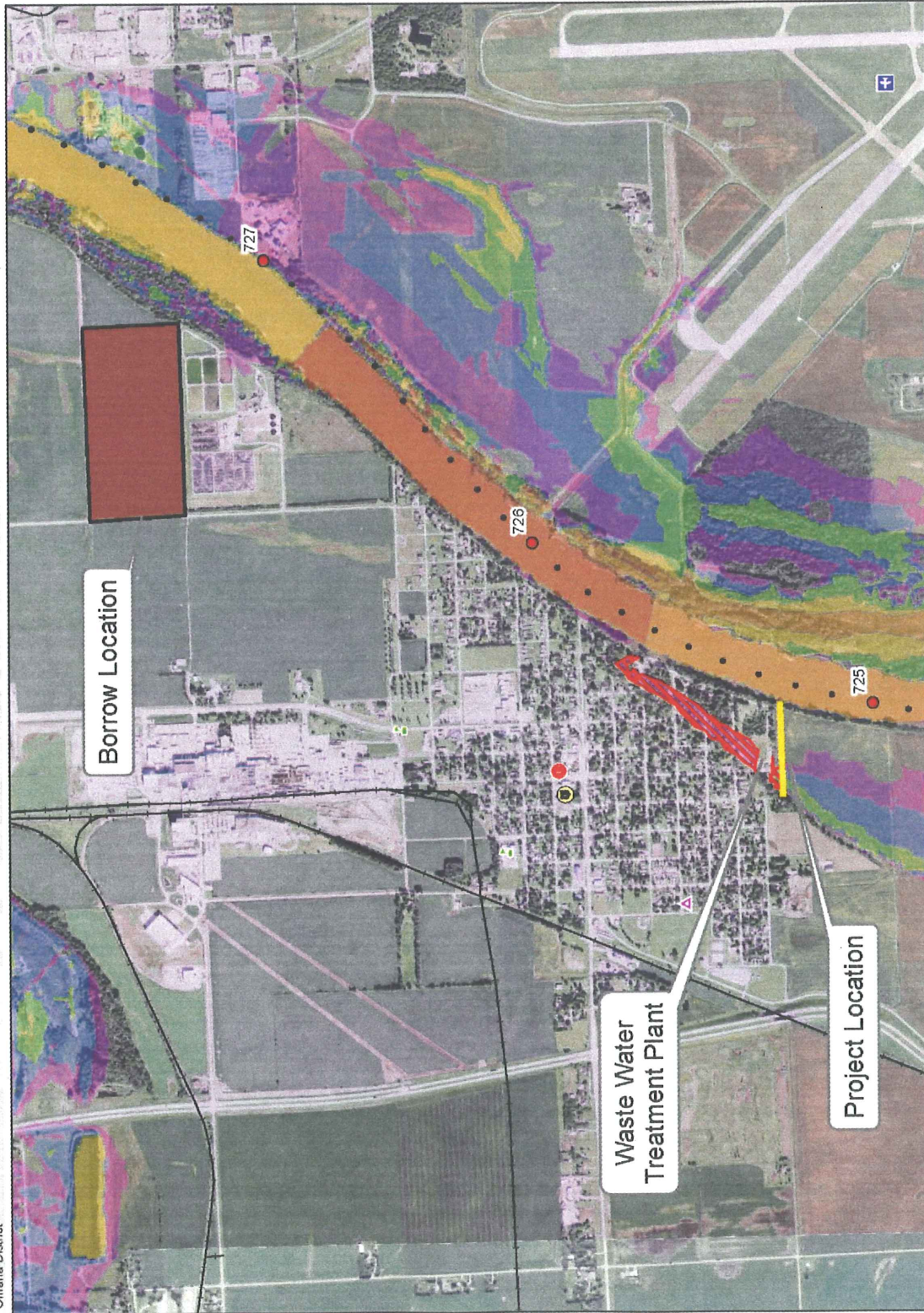




US Army Corps
of Engineers
Omaha District

Dakota City, Nebraska - 150,000 cfs Projected Inundation

3 June 2011
@
1915 HRS



Projected Inundation
(includes current tributary flows)
Spring 2011 Flood
Date: 3 June 2011 - Version 1

Nebraska

■ Technical Assistance

- ▶ Cargill
 - Emergency levee oversight
- ▶ Niobrara
 - Assessment for treatment plant, school and roads
- ▶ Offutt AFB
 - Assessment of NRD levee
 - Storm drain design.
 - Drainage/pump calculations provided to Air Force
- ▶ Plattsmouth
 - Assessment of water and wastewater treatment plant
- ▶ OPPD, Nebraska City
 - Assessing levee
- ▶ Cooper Nuclear Plant
 - Assessment of plant protection
- ▶ Maxwell, NE
 - City assessment
- ▶ Terrytown
 - Supplied Pump for interior drainage
- ▶ Grand Island to Wyoming Border
 - Assess communities along North Platte River
- ▶ Cass County
 - Pumps provided to Wakonda and Plattsmouth
- ▶ Sandbags
 - Big Elk Park, NE – Working
 - Decatur, NE- Complete
 - Peru – Complete
 - Bellevue – Complete



NWO

From: Ruch, Robert J COL NWO
Sent: Tuesday, June 07, 2011 9:05 AM
To: Farhat, Jody S NWD02; [REDACTED], NWO
Subject: Fw: River changes slide (UNCLASSIFIED)
Attachments: Main KDA Brief 15 May format 2.pptx

FYSA
V/R,
COL Bob Ruch
Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Clark, Mark D HQ02
To: Ruch, Robert J COL NWO
Sent: Tue Jun 07 06:24:15 2011
Subject: River changes slide (UNCLASSIFIED)

<<Main KDA Brief 15 May format 2.pptx>> Classification: UNCLASSIFIED
Caveats: NONE

Sir,

The attached slide is what was provided to the folks on the lower Mississippi. This type of product may be of some interest to some of your customers on the Missouri River.

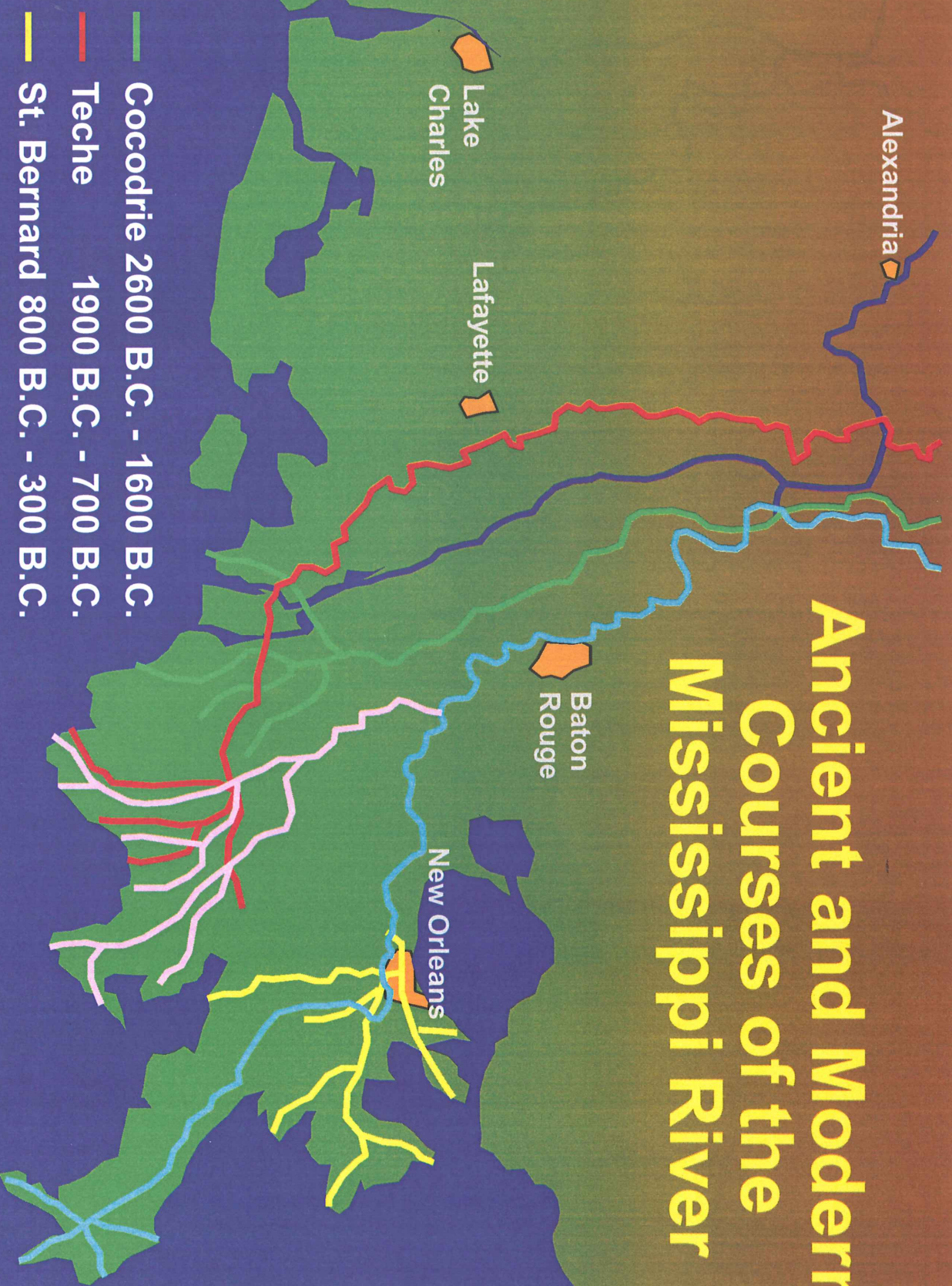
V/r

Mark Clark
Disaster Program Manager
HQ-USACE Contingency Operations Directorate
441 G Street NW
Washington, DC 20314
202-286-1398 Blackberry
202-510-1769 Cell
mark.clark@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Ancient and Modern Courses of the Mississippi River

- Cocodrie 2600 B.C. - 1600 B.C.
- Teche 1900 B.C. - 700 B.C.
- St. Bernard 800 B.C. - 300 B.C.
- Lafourche 65 A.D. - 1300 A.D.
- Modern 900 A.D. - PRESENT



[REDACTED] NWO

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 8:56 AM
To: Farhat, Jody S NWD02
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

What causes this? Any need for concerns?

-----Original Message-----

From: Oldham, Margaret NWO
Sent: Tuesday, June 07, 2011 8:49 AM
To: DLL-NWK-MRJIC
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

For your situational awareness in case you get calls...

VR

Maggie Oldham
Public Affairs Officer
Omaha District, USACE
Office: (402) 995-2416
BB: (402) 650-8154
margaret.e.oldham@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 8:23 AM
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWO; Schenk, Kathryn M NWO
Subject: FW: Whirlpool above Oahe (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

All: Please see pic on the link below regarding the whirlpool in Oahe Reservoir.

http://www.disasterrecovery.sd.gov/photogal/Pierre/gallery_Jun6.aspx

[REDACTED] and Oahe Staff: If possible, need to have area marked to restrict access.

[REDACTED]

-----Original Message-----

From: [REDACTED] NWO

Sent: Tuesday, June 07, 2011 7:44 AM

To: [REDACTED] NWO; 'Mary Welsh'; [REDACTED] NWO; [REDACTED] NWO; 'Colleen'; 'dan'; 'Flory'; 'greg'; 'Karen'; 'katie'; 'kevin'; 'nina'; 'Pat & Thereasa'; 'Trudy'; 'kathy'; 'Kathy2'

Subject: FW: Whirlpool above Oahe

This is kind of interesting.

This whirlpool apparently formed above the entrance to the discharge tunnels at the west end of the dam.

http://www.disasterrecovery.sd.gov/photogal/Pierre/gallery_Jun6.aspx

[REDACTED]
Operations Division - Maintenance Branch Omaha District Corps of Engineers
[REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 8:56 AM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S
NWD02; [REDACTED] NWD02
Subject: Mainstem data for NWO sitrep 6/7/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

Fort Peck Dam (MT)

6/6 Pool Elev: 2250.5 ft-msl
24-hr change: 0.0'
6/6 Ave Inflow: 51,000 cfs
6/6 Ave Release: 43,000 cfs
6/7 Scheduled Release: 50,000 cfs

Garrison Dam (ND)

6/6 Pool Elev: 1853.4 ft-msl
24-hr change: -0.1'
6/6 Ave Inflow: 97,000 cfs
6/6 Ave Release: 118,300 cfs
6/7 Scheduled Release: 130,000 cfs

Oahe Dam (SD)

6/6 Pool Elev: 1619.2 ft-msl
24-hr change: 0.1'
6/6 Ave Inflow: 137,000 cfs

6/6 Ave Release: 137,600 cfs

6/7 Scheduled Release: 150,000 cfs

Big Bend Dam (SD)

6/6 Pool Elev: 1419.3 ft-msl

24-hr change: 0.0'

6/6 Ave Inflow: 129,000 cfs

6/6 Ave Release: 128,200 cfs

6/7 Scheduled Release: 150,000 cfs

Fort Randall Dam (SD)

6/6 Pool Elev: 1360.7 ft-msl

24-hr change: 0.2'

6/6 Ave Inflow: 133,000 cfs

6/6 Ave Release: 121,600 cfs

6/7 Scheduled Release: 137,000 cfs

Gavins Point Dam (NE-SD)

6/6 Pool Elev: 1206.5 ft-msl

24-hr change: 0.2'

6/6 Ave Inflow: 118,000 cfs

6/6 Ave Release: 115,500 cfs

6/7 Scheduled Release: 130,000 cfs

Roy McAllister

Missouri River Basin Water Management Division Northwestern Division Corps of Engineers

402-996-3861

roy.f.mcallister@usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 8:54 AM
To: Farhat, Jody S NWD02
Subject: FW: Flood Waters (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

FYI

-----Original Message-----

From: [REDACTED] [mailto:[REDACTED]]
Sent: Monday, June 06, 2011 7:20 PM
To: Farmer, Monique L NWO
Subject: Flood Waters

First of all, let me begin by asking you if you truly believe the flood along the Missouri river basin is truly an act of nature? I understand that water flows downstream and those who choose to live along a flowing body of water should expect a flood once in a while, right? However, this disaster is a direct result of negligence on behalf of the Corps. The reservoirs in the northern plains are designed to prevent the very disaster the Corps have caused. The heavy snow pack and wet spring did not happen overnight. Inflows to the reservoirs are monitored daily, right? Water levels at the dams are monitored daily, right? The corps have the resources to monitor these conditions and make the necessary changes to the outflow from the dams. Unfortunately, someone chose to ignore the data and let the reservoirs swell to a dangerous level. And now we all pay for their incompetence.

Instead of blaming this event all on nature, I'd like to see one person at the corps accept responsibility!

Sincerely,

Greg Nelson

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

New Videos on the Omaha District YouTube website.

<http://www.youtube.com/OmahaUSACE#p/a/u/1/Hor2aYIuSL4>

“Oahe Stilling Basin Jun 5, 2011”

“Garrison Dam Spillway Apron Maintenance”

And others.

Bookmark this website with your other MO RIV favorites

Older photo of Oahe Dam for information and Tech Sheet of Mainstem Dams attached

[REDACTED]

402 [REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWD02
Sent: Tuesday, June 07, 2011 8:16 AM
To: [REDACTED] NWK
Cc: Farhat, Jody S NWD02; [REDACTED] NWK
Subject: RE: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED],
We need you to follow up this email request/approval with a hardcopy deviation request. Suggest you include a full-page picture of the spillway's exposed rebar as an attachment and include a sentence regarding time line.

[REDACTED]
Reservoir Regulation Team Lead
Missouri River Basin Water Management,
Northwestern Division, USACE

[REDACTED] (fax)

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:10 PM
To: [REDACTED] NWK; [REDACTED] NWD02
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWD;
[REDACTED] NWD02; [REDACTED] NWD
Subject: RE: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED],
The deviation request to release 1,500 cfs through Glen Elder Dam to minimize the chance of spillway releases is approved. This deviation will remain in effect until the repair of the structure is complete.

The additional release from Glen Elder Dam will add to the already high flows in the Missouri River, but will not have a measurable impact on stages on the lower Missouri River.

Please contact me if you have any questions regarding the approval of this deviation request.

Sincerely,

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
[REDACTED]

-----Original Message-----

From: [REDACTED] NWK
Sent: Monday, June 06, 2011 12:41 PM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK
Subject: FW: Ongoing Construction Projects at Glen Elder Dam (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

We have received the following information and attached photographs from the Bureau of Reclamation. There are significant safety concerns at Glen Elder Dam (Waconda Lake). We request a deviation to release 1,500 cfs through Glen Elder dam to minimize the chance of spillway release and help provide suitable conditions for repair of the structure. The deviation is requested until the construction is completed.

We understand that there are concerns with the Missouri River flow. However, the 1,500 cfs is one percent of the expected mainstem project release and would reduce the chance of a catastrophic situation in the Solomon basin.

Thank you for your consideration of this Glen Elder Dam (Waconda Lake) operation deviation.

[REDACTED]
[REDACTED]
(Acting) Chief, Hydrologic Engineering Branch
[REDACTED]

-----Original Message-----

From: Peck, William E [mailto:WPeck@usbr.gov]
Sent: Friday, June 03, 2011 4:09 PM
To: [REDACTED] NWK
Cc: [REDACTED] NWK
Subject: Ongoing Construction Projects at Glen Elder Dam

Hello [REDACTED]

Have attached a couple of photos for each of the two construction projects taking place at Glen Elder Dam (Waconda Lake). The first photo of the spillway approach apron (immediately upstream of the spillway gates) gives you an idea of the scope of the repairs that were taking place. This photo was taken early last November. The second photo of the spillway construction project was taken when the lake level exceeded 1456.20 feet on May 25th. The contractor had removed all of his equipment from the small dike upstream of the apron after earlier notification that the lake level would be increasing several more feet. The contractor had constructed the dike to assist in the repairs to the spillway apron. As you can see from this photo there are at least three large concrete slabs that had not been completed at the time of the flooding. Would need to check with a structural engineer, but thinking it would not be a good thing to run water through the spillway with a partially

completed approach apron. I do know that there are some sort of anchors located within the apron that tie into the spillway structure to help prevent any movement (once again would need structural engineers evaluation). This is a 2.5 million dollar contract and is a ARRA project. It is my understanding that funding through ARRA is to run out at the end of September of this year. Not sure if this funding can be carried over, but if not, we will need to find another source to finish the construction.

The second two photo's are of the soil cement damage on the upstream face of the dam. There were numerous areas in need of repair with a few critical areas having as many as three lifts of soil cement missing or damaged. These repairs are made periodically to ensure that wave action does not find a path beneath the slabs and erode the underlining base material (embankment). Repairs are required when over 50 % of the soil cement coverage has been lost. The last repairs made to the soil cement face were completed in 1987. Prior to the flooding, I was informed that the repairs below elevation 1455.6 feet had been completed (contractor required to work on these areas first). There were several other areas above this level that were submerged before they could be repaired. I believe the initial construction cost was around \$500,000.

Both contractors were forced to de-mobilize because of the high reservoir level (both areas of repair are now several feet under the water). The contractors are to return to the job as soon as the water level approaches the top of conservation level. The cost of the projects will undoubtedly increase substantially as a result of the work stoppage (mostly due to the de-mobilization and re-mobilization according to COR on the job).

Just one other note, we will be required to make smaller releases to the river for the Glen Elder Irrigation District this summer (up to 200 cfs). In the big picture of things It seems that releasing 1,500 cfs would not be all that significant. I do understand however that there is the perception that we would be releasing from Glen Elder Dam when other structures would be forced to store water.

Hope this helps,

Let me know if you require more information or have additional questions.

Bill Peck

Chief, Water Operations

McCook Field Office

U.S. Bureau of Reclamation

1706 West 3rd Street

McCook, NE 69001

(308)-345-1029

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: Terry Supple [REDACTED]
Sent: Tuesday, June 07, 2011 7:46 AM
To: Farhat, Jody S NWD02
Subject: Thanks for the water!

After reading the attached article by you less than 3 months ago, I have to think that someone in your department has been asleep at the helm. I am about to lose a house as well as 250 acres of corn that was planted less than a month ago, thanks to the corps of engineers. In a tough economy, this may be the end of my farming for good.

I know your story is going to be that "all the extra rain and snow melt" has caused this, but the Missouri River in my area ran at 5-6 feet all winter. If you or your people were not walking around with your heads up your asses, you possibly could have thought to release some of this water in anticipation of the snow melt.

Thank you for doing what most government employees do - wait till there is a crisis, make up some bullshit story for the press and then smirk as you keep getting paid for incompetency. In the public sector, had this happened, someone would have been fired. More likely, several people would fall. Not with the government though. You and your incompetent cronies will be around for a long time, passing the buck and spreading crap like you do.

I will be here in Missouri, trying to figure out what to do next to stay alive.

Live with it - and I hope no matter how hard you try, you can't forget what you guys have done.

Terry Supple
St. Joseph & Mound City, Missouri

http://omaha.com/article/20110303/NEWS01/703039895?sms_ss=email&at_xt=4ded28779117204d%2C0

Terry Supple

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 9:13 AM
To: [REDACTED]
Cc: Hofmann, Anthony J COL NWK
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The spillway capacity of Gavins Point with the reservoir surcharged to elevation 1221.4 feet (top of exclusive/top of gates is 1210 feet) is 584,000 cfs.

Jody

-----Original Message-----

From: [REDACTED]
Sent: Tuesday, June 07, 2011 9:10 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED] Hofmann, Anthony J COL NWK
Subject:

Question:

What is the largest cfs could be released from Gavins if needed???

Need answer ASAP if you know.

Thanks

[REDACTED]

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 9:48 AM
To: William Lay
Subject: RE: Teacup (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Thanks, Bill. You may have a more attentive audience in the future.

-----Original Message-----

From: William Lay [<mailto:wlay@socket.net>]
Sent: Tuesday, June 07, 2011 9:43 AM
To: Farhat, Jody S NWD02
Subject: Teacup

Dear Jody,

We can't expect you to handle this 44 MAF flood with only 11.6 MAF of storage.

You will be surprised to learn that I currently feel we should plan for highest, not the average inflows.

Maybe others will begin to understand your problems.

You have only 25% of this year's necessary storage in the system.

You can't be expected to handle a flood of this size with a teacup.

If they want to handle large floods they have got to give the Corps the proper equipment.

Bill Lay

Classification: UNCLASSIFIED
Caveats: NONE

From: [REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 9:52 AM
To: [REDACTED] NWK
Cc: Hofmann, Anthony J COL NWK
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We aren't making worse case predictions; we're just telling folks that 150,000 cfs is our best estimate of the releases that will be necessary. Releases could go higher if conditions in the upper basin deteriorate significantly. We have a lot of runoff built into our forecast, but that doesn't mean things couldn't get worse.

Jody

-----Original Message-----

From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:28 AM
To: Farhat, Jody S NWD02
Cc: Hofmann, Anthony J COL NWK
Subject: Re: (UNCLASSIFIED)

What's the largest cfs could be released. Now 150000 cfs and what could be the highest?

----- Original Message -----

From: Farhat, Jody S NWD02
To: [REDACTED] NWK
Cc: Hofmann, Anthony J COL NWK
Sent: Tue Jun 07 07:13:26 2011
Subject: RE: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The spillway capacity of Gavins Point with the reservoir surcharged to elevation 1221.4 feet (top of exclusive/top of gates is 1210 feet) is 584,000 cfs.

Jody

-----Original Message-----


From: [REDACTED] NWK
Sent: Tuesday, June 07, 2011 9:10 AM
To: Farhat, Jody S NWD02
Cc: [REDACTED]; Hofmann, Anthony J COL NWK
Subject:

Question:

What is the largest cfs could be released from Gavins if needed???

Need answer ASAP if you know.

Thanks


Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:12 AM
To: Farmer, Monique L NWO; [REDACTED] NWD
Subject: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)
Attachments: Mitzel Interview Questions.docx

Classification: UNCLASSIFIED
Caveats: NONE

Monique and [REDACTED] I've quickly added answers to Bill Mitzel's list of questions for the interview at 11:00. If you have time, could you read through these and see if there's anything I missed or any clarifications I should make.

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
Home: 402-551-6013

Classification: UNCLASSIFIED
Caveats: NONE

Jody... here's a list of 20 questions for your advance review. I might have a few more in-between, as we visit on the phone. Please review these and let me know what time we can do this during the coming week here. I anticipate about an hour, give or take. Thanks very much for your time.

Bill Mitzel

Dakota County Magazine

Questions for interview with Corps of Engineers...

1. How did this all happen so quickly?

- Perfect storm composed of plains snow, extraordinary rain and late season mountain snowpack
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt. As much rain in the past month as this region gets in a normal year, up to 300 - 600 percent of normal.
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

2. (In anticipation of answer No. 1) But we've huge rain and snow events before (1997). Why was this so bad?

- The timing of this event was critical. Repeated rounds of heavy rain, coupled with near record plains snowpack filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. And at the same time the snowpack continued to climb well into May, to historic levels in some regions.

3. Snowpack wasn't a problem until early June and by then releases were was over 100,000 cfs on Sakakawea and Oahe. It's hard to accept those releases from just rain events in Montana?

- We monitor snowpack on the plains and in the mountains throughout the year and base our regulation forecasts on that information.
- Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2

4. A press release on June 4 of this year from Ft. Peck proclaimed "historic snow levels" in the mountains. Yet the snowpack was 108% of normal on 2/28 and 116% on 3/31. What's "historic" about that?

- Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.

- Apr 1 Snowpack = 116% FTPK, 112% GARR
- May 1 Snowpack = 141% FTPK, 136% GARR

5. Weren't these dams built to prevent this type of flooding?

- The reservoir system is designed to capture spring and summer runoff to provide flood control, and then allows the Corps to manage releases throughout the year to accommodate the other 7 authorized purposes: navigation, irrigation, water supply, hydropower, fish and wildlife, recreation, and water quality.
- Of the 8 authorized purposes, only flood control required empty space in the reservoirs
- The total flood control capacity of the reservoir system is 16.3 MAF. That volume was designed on the 1881 flood which included 40 MAF of runoff from March through July. This year's March through July runoff is forecast to total 44 MAF, 10 percent greater than the design storm.
- This event does not threaten the integrity of the dams, but does necessitate these record releases.

6. We checked the found that the trouble seemed to begin in the spring of 2010, yet the snowpack was at 76% of normal in March of that year. The 2010 runoff forecast then was at 115%. The ground was saturated with water. Did you sense a return of a wet cycle then? Was there a red flag at that time?

- Snowpack in 2010 was below normal, but rainfall from Montana to Missouri was much above normal, resulting in 2010 being the 3rd wettest year in the historic record, which extends from 1898 to current.

7. Were you comfortable with upper reservoir levels last fall going into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7 and Oahe was at 1605.3.)

- Yes, the regulation plan for the mainstem reservoir system calls for the evacuation of all flood water prior to the start of the runoff season. All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season

8. Is there an ideal pool level that you'd prefer each of these three reservoirs be at on Jan. 1 each year?

- We strive to have the full flood control capacity of the reservoir system available at the start of the runoff season, which normally starts on March 1. This year, we reached the desired level of 56.8 MAF on 28 January 2011, and runoff from the plains snowpack began in February.

9. There are three factors that people seem to be upset with:

- 1) Why wasn't more water released last fall, winter and earlier this spring from the upper reservoirs to collect spring runoff?

- We evacuated the 2010 flood waters last fall and throughout the winter – releases were above normal throughout that period and we were right where we were supposed to be at the start of the runoff season. We had the full flood control capacity of the mainstem reservoir system available and there was no reason at that time to evacuate any more.
- In addition, it is very difficult to make dramatic changes to releases during the winter, which is why we attempt to have virtually all of the flood storage evacuated prior to the onset of winter. Once the river is frozen over, particularly in the Bismarck area, we can only make small adjustment to our releases to prevent ice-jam flooding in the Bismarck area.

2) Did the Corps misjudge the amount on snowpack in the mountains last winter?

- We monitor snowpack on the plains and in the mountains throughout the year and base our regulation forecasts on that information.
- Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.

3) Management of the system in conjunction with the piping plover and least tern?

- No operational decisions this year were driven by the Endangered Species Act – we have been operating solely for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not have to implement in 2011 because flows were already above normal and because the risk to potential flooding downstream of the System. Summer adjustments to operations to minimize flooding of protected tern and plover eggs and chicks did not take place this year due to high flow conditions.

10. Even last 2/28/11, the Corps said mountain snowpack was only 108% of normal, then raised to only 116% on 3/31/11. What happened after that?

- Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.

11. In early May of this year, daily releases from Garrison Dam were only averaging 14,900 cfs. Yet by then the Corps knew or should have known of the alleged excessive mountain snowpack. Why weren't releases vamped up earlier last spring in anticipation of excessive mountain snowpack?

- Releases from Garrison averaged between 23 and 26 kcfs in January and February to continue the evacuation of last year's flood waters. Important to note that due to ice on the river during the winter, our ability to make significant changes in releases is very limited. When the ice finally went out in the Bismarck area and the plains snowpack started to melt, we reduced our releases to provide channel capacity for the snowmelt. Our April 1 study indicated we needed to release 15,000 cfs in April, 22,000 cfs in May, and 29,000 cfs in the summer. By May 1 with the additional mountain snowpack, the May release forecast for Garrison's releases increased to 43,000 cfs in May increasing to 49,000 cfs in the

summer. What we didn't anticipate was the extraordinary rain that shattered runoff records in May.

12. The Corps is charged with managing 6 reservoirs/dams in the Dakotas. How do you balance those?

- The Missouri River Mainstem Reservoir System, which includes 6 dams, is operated in accordance with the Master Manual. The Master Manual is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

13. It's been said that the barge industry further south gets too much attention and isn't big enough commercially to warrant maintaining high flows? How important is the barge industry in this balance?

- Navigation is one of the congressionally authorized project purposes and it is given consideration in the operation of the system, just like all the other authorized purposes. Unless Congress chooses to eliminate navigation as an authorized purpose, we will continue to operate for it.

14. Are you influenced heavily by political pressure to maintain enough water for the barge industry, and how important is that industry... really?

- The Corps revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process including changes to the amount of flood control storage and support to navigation. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

15. In the Dakotas, you get pressure to "Keep our water here", especially during drought years (2002--2008), by various groups including the tourism, recreation and business communities. How do you react to that pressure during times of low water?

- The reservoir system is operated in accordance with the Master Manual and not in response to pressure from various interest groups. The 2004 Master Manual revision included more stringent drought conservation measures which reduce support to navigation and other downstream purposes during period of drought.

16. Would you manage the reservoirs differently if it weren't for propagation of the piping plover and least tern?

- We are required to comply with the Endangered Species Act in the regulation of the mainstem reservoir system. In most years, release decisions are affected by nesting activities of the piping plover and least tern. However in 2011, no operational decisions this year were driven by the Endangered Species Act – we have been operating solely for flood risk reduction. In fact, the Master Manual provides for a Spring Pulse to aid Endangered Species, which is an increase in flows during March and May, that we did not have to implement in 2011 because flows were already above normal and because the risk to potential flooding downstream of the System. Summer adjustments to operations

to minimize flooding of protected tern and plover eggs and chicks did not take place this year due to high flow conditions.

17. Who directs the Corps to maintain specific water levels for these birds, as well as manage/build sandbars for them?

- The reservoir system is operated to meet the requirements of the US Fish and Wildlife Service's 2003 Amended Biological Opinion. The Biological opinion lays out habitat and productivity goals associated with the three protected species along with an array of other actions that it believes are necessary to preclude jeopardizing the continued existence of the species.

18. I believe Sakakawea's dam height at the top is 1875 feet. If that's correct, why is the flood peak at 1854, so much lower? What is the dam height of Ft. Peck and Lake Oahe?

- Elevation 1854 is the top of the spillway gates. If the reservoir goes higher than that we must raise the gates to prevent them from being overtopped. The top of the dam is much higher, at 1875 feet, so reaching elevation 1854 does not in any way affect the integrity of the dam.
- The top of the gates at Fort Peck are at 2250, the top of dam is 2280.5.
- The top of gates at Oahe are at 1620, the top of dam is at 1660.

19. What's the Corps' overall reaction to all of this? Would you have done anything differently knowing what you know now?

- Our hearts go out to those communities impacted by the flood waters and we will do everything in our ability to provide assistance. We are committed to this flood fight.
- At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- We didn't have a crystal ball that told us that we would get record inflow in the month of May without melting any of the snow. This truly was a rainfall event that filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff and took away our flexibility keep releases within the normal range.

20. Will the Corps do anything differently when this is over as far as management operations?

- The reservoir system has been operated in accordance with the Master Manual. 2011 will be a new data point in the history of the Missouri River Basin, both in terms of hydrology and flood plain impacts, so this event will certainly be studied in the future. The Corps will certainly conduct an extensive internal review following the flooding this year for lessons learned. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:52 AM
To: Farmer, Monique L NWO
Subject: RE: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Got it.
Thanks,
Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 10:23 AM
To: Farhat, Jody S NWD02
Cc: **[REDACTED] NWD**
Subject: RE: Questions for Mitzel interview at 11:00 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Looks good. One thing - for question #8, I think it would be helpful to point out where we were at the start of the (normal) runoff season, March 1, and stress again that we still had pretty much the full storage capacity of the system available.

See you in a bit.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 10:12 AM
To: Farmer, Monique L NWO; **[REDACTED] NWD**
Subject: Questions for Mitzel interview at 11:00 g(UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Monique and **[REDACTED]**, I've quickly added answers to Bill Mitzel's list of questions for the interview at 11:00. If you have time, could you read through these and see if there's anything I missed or any clarifications I should make.

Jody Farhat, P.E.
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil
Office: 402-996-3840
Cell: 402-350-1417
Home: **[REDACTED]**

Classification: UNCLASSIFIED
Caveats: NONE

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:15 PM
To: bill mitzel
Subject: RE: Interview Request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Bill,

My pleasure.

And to answer your questions, at this time we are not planning a monthly news release for June but if you need any bits of information that are normally included in our monthly news release, let me know and I'll get them for you.

As for the mountain snowpack, below are the numbers I have for the reach above Fort Peck and the reach between Fort Peck and Garrison.

- o Feb 1 Snowpack = 112% Reach above Fort Peck, 111% Reach between Fort Peck and Garrison.
- o Mar 1 Snowpack = 109% Reach above Fort Peck, 106% Reach between Fort Peck and Garrison
- o Apr 1 Snowpack = 116% Reach above Fort Peck, 112% Reach between Fort Peck and Garrison
- o May 1 Snowpack = 141% Reach above Fort Peck, 136% Reach between Fort Peck and Garrison
- o Peak Snowpack = 141% Reach above Fort Peck on May 2, 136% Reach between Fort Peck and Garrison on May 2

Let me know if you have any other clarifying questions. Like you, I'm always interested in getting the best possible information out to the public.

Thanks,
Jody

-----Original Message-----

From: bill mitzel [mailto:dcmag@orbitcom.biz]
Sent: Tuesday, June 07, 2011 11:51 AM
To: Farhat, Jody S NWD02
Subject: Re: Interview Request (UNCLASSIFIED)

Jody... thanks for taking the time to visit with me this morning. I forgot two things: 1) Will there be a monthly news release for May?, and 2) the snowpack was 116% of normal on 3/31.... what was the snowpack percentage on 5/1? Thanks again.
Bill

On Jun 6, 2011, at 1:34 PM, Farhat, Jody S NWD02 wrote:

> Classification: UNCLASSIFIED
> Caveats: NONE
>
> You can call my office at 402-996-3840
>
> Jody
>

> -----Original Message-----
> From: bill mitzel [mailto:dcmag@orbitcom.biz]
> Sent: Monday, June 06, 2011 12:57 PM
> To: Farhat, Jody S NWD02
> Subject: Re: Interview Request (UNCLASSIFIED)
>
> Jody... that will be fine.... please give me a phone number to call.
> Thanks.
> Bill
>
>
> On Jun 6, 2011, at 12:55 PM, Farhat, Jody S NWD02 wrote:
>
>> Classification: UNCLASSIFIED
>> Caveats: NONE
>>
>> Bill - Does 11:00 CT tomorrow work for you?
>>
>> -----Original Message-----
>> From: bill mitzel [mailto:dcmag@orbitcom.biz]
>> Sent: Monday, June 06, 2011 10:41 AM
>> To: Farhat, Jody S NWD02
>> Subject: Re: Interview Request (UNCLASSIFIED)
>>
>> Jody... here's a list of 20 questions for your advance review. I
>> might have a few more in-between, as we visit on the phone. Please
>> review these and let me know what time we can do this during the
>> coming week here. I anticipate about an hour, give or take. Thanks
>> very much for your time.
>> Bill Mitzel
>> Dakota County Magazine
>>
>> Questions for interview with Corps of Engineers...
>>
>> 1. How did this all happen so quickly?
>> 2. (In anticipation of answer No. 1) But we've huge rain and snow
>> events before (1997). Why was this so bad?
>> 3. Snowpack wasn't a problem until early June and by then releases
>> were was over 100,000 cfs on Sakakawea and Oahe. It's hard to accept
>> those releases from just rain events in Montana?
>> 4. A press release on June 4 of this year from Ft. Peck proclaimed
>> "historic snow levels" in the mountains. Yet the snowpack was 108% of
>> normal on 2/28 and 116% on 3/31. What's "historic" about that?
>> 5. Weren't these dams built to prevent this type of flooding?
>> 6. We checked the found that the trouble seemed to begin in the
>> spring of 2010, yet the snowpack was at 76% of normal in March of
>> that year.
>> The 2010
>> runoff forecast then was at 115%. The ground was saturated with
>> water.
>> Did you sense a return of a wet cycle then? Was there a red flag at
>> that time?
>> 7. Were you comfortable with upper reservoir levels last fall going
>> into winter, on 12/31/10? (Peck was at 2235.4, Garrison was at 1841.7
>> and Oahe was at 1605.3.) 8. Is there an ideal pool level that you'd
>> prefer each of these three reservoirs be at on Jan. 1 each year?
>> 9. There are three factors that people seem to be upset with: 1) Why

>> wasn't more water released last fall, winter and earlier this spring
>> from the upper reservoirs to collect spring runoff? 2) Did the Corps
>> misjudge the amount on snowpack in the mountains last winter? 3)
>> Management of the system in conjunction with the piping plover and
>> least tern?
>> 10. Even last 2/28/11, the Corps said mountain snowpack was only 108%
>> of normal, then raised to only 116% on 3/31/11. What happened after
>> that?
>> 11. In early May of this year, daily releases from Garrison Dam were
>> only averaging 14,900 cfs. Yet by then the Corps knew or should have
>> known of the alleged excessive mountain snowpack. Why weren't
>> releases vamped up earlier last spring in anticipation of excessive
>> mountain snowpack?
>> 12. The Corps is charged with managing 6 reservoirs/dams in the
>> Dakotas. How do you balance those?
>> 13. It's been said that the barge industry further south gets too
>> much attention and isn't big enough commercially to warrant
>> maintaining high flows? How important is the barge industry in this
>> balance?
>> 14. Are you influenced heavily by political pressure to maintain
>> enough water for the barge industry, and how important is that
>> industry... really?
>> 15. In the Dakotas, you get pressure to "Keep our water here",
>> especially during drought years (2002--2008), by various groups
>> including the tourism, recreation and business communities. How do
>> you react to that pressure during times of low water?
>> 16. Would you manage the reservoirs differently if it weren't for
>> propagation of the piping plover and least tern?
>> 17. Who directs the Corps to maintain specific water levels for these
>> birds, as well as manage/build sandbars for them?
>> 18. I believe Sakakawea's dam height at the top is 1875 feet. If
>> that's correct, why is the flood peak at 1854, so much lower? What is
>> the dam height of Ft. Peck and Lake Oahe?
>> 19. What's the Corps' overall reaction to all of this? Would you have
>> done anything differently knowing what you know now?
>> 20. Will the Corps do anything differently when this is over as far
>> as management operations?

>> Classification: UNCLASSIFIED
>> Caveats: NONE

> Classification: UNCLASSIFIED
> Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:16 PM
To: Farmer, Monique L NWO; Woods, James H SWL
Subject: RE: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

My statement has been "well into August"

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 11:58 AM
To: [REDACTED] SWL
Cc: Farhat, Jody S NWD02
Subject: RE: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Mid-August. Adjustments to the release schedule will be made if necessary based on hydrologic models. These models are run daily and include consideration of mountain snowpack, plains snowpack and precipitation.

Jody - please cosign.

-----Original Message-----

From: Woods, James H SWL
Sent: Tuesday, June 07, 2011 11:47 AM
To: Farmer, Monique L NWO
Subject: Re: Call down to MRJIC (UNCLASSIFIED)

[REDACTED] was asked how long we are projecting this event to last. [REDACTED] said the date he is working off of is mid july. Reporter said that yesterday a corps official said mid august. what is the correct answer?

Thanks

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farmer, Monique L NWO
To: [REDACTED] SWL
Sent: Tue Jun 07 08:30:40 2011
Subject: RE: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Anything done would need to go through Contracting.

Monique

-----Original Message-----

From: [REDACTED] SWL
Sent: Tuesday, June 07, 2011 10:30 AM
To: Farmer, Monique L NWO
Subject: Re: Call down to MRJIC (UNCLASSIFIED)

Thanks for the info. I'll get with the construction guys on the ground here to see what they think.

[REDACTED]

Message sent via my BlackBerry Wireless Device

----- Original Message -----

From: Farmer, Monique L NWO
To: [REDACTED] NWO
Cc: DLL-NWK-MRJIC
Sent: Tue Jun 07 08:26:47 2011
Subject: Call down to MRJIC (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]

Just wanted to let you know that we received a call from a gentleman named Doug Prange of Prange Aerial Photography. He wants to know whether we need a contractor for Aerial Photography.

402.421.3310.

V r,

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED

Burke, Linda NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:33 PM
To: Williamson, Eileen L NWO
Cc: **Lindquist, Todd** NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - just got a call from **Todd Lindquist** at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 10:17 AM
To: CENWO-EOC NWO; Bertino, John J Jr NWO; **Shamdeep, Suresh** NWD; **Williamson, Eileen L** NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; **Butler, Steve** NWO; **Williamson, Eileen L** NWO; Davis, Joseph M Maj NWO; DLL-CENWO-EOC CMT-ALL; **Williamson, Eileen L** NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; **Williamson, Eileen L** NWO; Hine, Jacki R NWO; **Williamson, Eileen L** NWK; **Williamson, Eileen L** NWK; **Jacobson, John A** NWO; **Janis, Larry D** NWO; **Johnson, Daniel** NWO; **Williamson, Eileen L** NWO; Johnston, Paul T HQ@ NWO; **Williamson, Eileen L** NWK; **Kraft, John** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWD; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWK; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; 'michael.eckert@noaa.gov'; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; **Williamson, Eileen L** NWO; Thomas, Kimberly S NWO; Tipton, Robert A Col NWD; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWO; **Williamson, Eileen L** NWD; Blechinger, Erik T NWO; **Dorsey, Trisha C** NWK; **Williamson, Eileen L** NWK; **Williamson, Eileen L** NWK; **Williamson, Eileen L** SPK; **Williamson, Eileen L** SWG; **O'Hara, Thomas A** NWO; Oldham, Margaret NWO; **Williamson, Eileen L** SWL
Cc: **Williamson, Eileen L** NWO
Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

- * 51,000 cfs (6 Jun)
- * 52,000 cfs (5 Jun)

Daily Avg. Release

- * 43,000 cfs (6 Jun)
- * 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

- * 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

- * 2246 ft msl - 2250 ft msl

Top of Spillway Gates

- * 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

- * 115,500 cfs (6 Jun)
- * 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1208 ft msl - 1210 ft msl

Top of Spillway Gates

- * 1210 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

- * 1209.7 msl (2010)

Record Flow (Date)

- * 70,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)

4 (Fort Yates, ND)

4 (Williston, ND)

1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Burke, Linda NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:40 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:36 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you tell me what it should say tomorrow?>

This is what it says for

Fort Peck

- Peak release will be 50,000 cfs by no later than mid June.
- Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Garrison

- Releases will be stepped up to 150,000 cfs by mid June.
- Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- First time in history, spillway gates will be used to pass floodwaters.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:33 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - just got a call from [REDACTED] at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO

Sent: Tuesday, June 07, 2011 10:17 AM

To: CENWO-EOC NWO; Bertino, John J Jr NWO; [REDACTED] NWD; [REDACTED] NWO; 'bruce.sullivan@noaa.gov'; 'bruce.terry@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; Davis, Joseph M Maj NWO; DLL-CENWO-EOC CMT-ALL; [REDACTED] NWO; Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED] R NWO; [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWO; Larson, [REDACTED] NWO; [REDACTED] R NWD; [REDACTED] NWO; Lindquist, Todd NWO; [REDACTED] NWK; [REDACTED] A NWO; [REDACTED] NWO; [REDACTED] NWO; 'michael.eckert@noaa.gov'; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; 'robert.kelly@noaa.gov'; Ruch, Robert J COL NWO; [REDACTED] NWO; [REDACTED] NWO; Tipton, Robert A Col NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Williamson, Eileen L NWO; [REDACTED] NWD; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] LRC; [REDACTED] SPK; [REDACTED] SWG; O'Hara, Thomas A NWO; Oldham, Margaret NWO; [REDACTED] SWL

Cc: [REDACTED] NWO

Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl
* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)
* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)
* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

* 1619.2 ft msl

* 24-hr Change (+0.1 ft)

Daily Avg. Inflow

* 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

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* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

- * 129,000 cfs (6 Jun)
- * 116,000 cfs (5 Jun)

Daily Avg. Release

- * 128,200 cfs (6 Jun)
- * 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1422 ft msl - 1423 ft msl

Top of Spillway Gates

- * 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

- * 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

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* 1350 ft msl - 1375 ft msl

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Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

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Record Pool Elevation (Year)

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Record Flow (Date)

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Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

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Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

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24-hr forecast (Washburn, ND)

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Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

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Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)

4 (Fort Yates, ND)

4 (Williston, ND)

1 (Minot, ND)

3 (Pierre, SD)

1 (Kansas City, MO)

5 (Sioux City, IA)

4 (Dakota Dunes, SD)

6 (S. Sioux City, NE)

2 (Missouri River Survey)

1 (Decatur, NE)

- 3 (Offutt, NE)
- 6 (North Platte, NE)
- 4 (Roundup, MT)
- 1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: Re: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

If in fact the forecast shows we need to go up, we'll discuss it on the call tonight and put out a short press release.

Jody

----- Original Message -----

From: Farmer, Monique L NWO
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Sent: Tue Jun 07 11:16:46 2011
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of
Engineers Omaha District
(402) 995-2588
(402) 779-1460

Classification: UNCLASSIFIED
Caveats: NONE

Burke, Linda P NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:11 PM
To: Farmer, Monique L NWO; Swenson, Michael A NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Yes - they're just finishing up the forecast and we do show going to 55 kcfs later this week. I'll let you know the exact date as soon as they finalize it. FYI, the change is due to continued high runoff into the reservoir this week including rain over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so FTPK releases will be increased to better balance the remaining storage between FTPK and GARR.

Mike do you have anything else to add, or any corrections/clarifications to my statement.

Jody

-----Original Message-----
From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 1:57 PM
To: Farhat, Jody S NWD02
Cc: Oldham, Margaret NWO
Subject: RE: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

If you know you will include it in your TPs, please let us know soonest so we can develop a news release.

Thanks,

Monique

-----Original Message-----
From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 1:49 PM
To: Farmer, Monique L NWO
Cc: Oldham, Margaret NWO
Subject: Re: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

If in fact the forecast shows we need to go up, we'll discuss it on the call tonight and put out a short press release.

Jody

----- Original Message -----
From: Farmer, Monique L NWO
To: Farhat, Jody S NWD02

Cc: Oldham, Margaret NWO
Sent: Tue Jun 07 11:16:46 2011
Subject: 55,000 @ Peck vs. 50,000 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Will we need a news release for this?

Monique Farmer
Media Relations Team Lead/Missouri River Joint Information Center U.S. Army Corps of
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Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:31 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] S NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 7:13 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED]; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Please note I did not utilize the first two paragraphs of the talking points tonight. We'll have the CG incorporate those statements in his remarks next time he's on the call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Monday, June 06, 2011 5:51 PM

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] S NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02

Subject: RE: WM Talking Points for 5 June stakeholder call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

My talking points for tonight's stakeholder meeting, followed by more general WM talking Pts.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:48 PM
To: **[REDACTED] NWO**
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - how are flows being divided between the spillway and regulating tunnels today, and do you intend to shut off the regulating tunnels at some time to do an inspection?

Also, how far are the gates open, and are they all open the same amount?

Jody

-----Original Message-----

From: **[REDACTED] NWO**
Sent: Tuesday, June 07, 2011 12:42 PM
To: Farhat, Jody S NWD02; Williamson, Eileen L NWO
Cc: M **[REDACTED] NWO**; S **[REDACTED] NWO**; **[REDACTED] NWO**; **[REDACTED] NWO**
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen,
Please remove the second bullet and revise the third one to reflect the following.

At 4:00 pm today, we will have all 28 spillway gates open to pass flood waters.

Yet, another "record"...

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:40 PM
To: Williamson, Eileen L NWO
Cc: **[REDACTED] NWO**; **[REDACTED] NWO**
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,
Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Tuesday, June 07, 2011 12:36 PM
To: Farhat, Jody S NWD02

Subject: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Missouri River Mainstem Reservoir Bulletin (Updated 7 Jun; 0735 CDT)

Fort Peck(In operation since 1940)

Midnight Elevation

* 2250.5 ft msl

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)

* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)

* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

- * Peak release will be 50,000 cfs by no later than mid June.
- * Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

- * 2251.6 msl (1975)

Record Flow (Year)

- * 35,000 cfs (1975)

Projected Record Flow (Date)

- * 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

- * 1853.4 ft msl
- * 24-hr Change (-0.1 ft)

Daily Avg. Inflow

- * 97,000 cfs (6 Jun)
- * 100,000 cfs (5 Jun)

Daily Avg. Release

- * 118,300 cfs (6 Jun)
- * 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

* 17.01 (0515 CDT 7 Jun)

* Flood stage - 16 ft

* 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.

* First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

* 1854.8 msl (1975)

Record Flow (Year)

* 65,000 cfs (1975)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

- * 1619.2 ft msl
- * 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)
- * 133,000 cfs (5 Jun)

Daily Avg. Release

- * 137,600 cfs (6 Jun)
- * 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

- * 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

- * 1617 ft msl - 1620 ft msl

Top of Spillway Gates

- * 1620 ft msl

River Stage (Pierre)

- * 18.34 (0531 CDT 7 Jun)
- * Flood stage - 15 ft
- * 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

* 1422.1 msl (1991)

Record Flow (Date)

* 74,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

* 1360.7 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 133,000 cfs (6 Jun)

* 120,000 cfs (5 Jun)

Daily Avg. Release

* 121,600 cfs (6 Jun)

* 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)
9 (Lander, WY)
14 (Bismarck, ND)
4 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

~~Quinn, Kevin R~~ NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 4:06 PM
To: Quinn, Kevin R NWO
Cc: Farmer, Monique L NWO; Oldham, Margaret NWO; Blechinger, Erik T NWO
Subject: Fort Peck News Release (UNCLASSIFIED)
Attachments: NR-FortPeckincrease to55k 6-7-11.docx

Classification: UNCLASSIFIED
Caveats: NONE

Kevin - I took out the reference to COL Ruch - you can add him back in if you'd like, but the decisions on releases are made by WM. I also added a little bit of additional info.

Good to go, though you might check with Monique or Maggie to see if they want it to go out ahead of the stakeholder call.

Many thanks,
Jody

-----Original Message-----

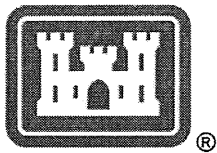
From: Quinn, Kevin R NWO
Sent: Tuesday, June 07, 2011 3:44 PM
To: Farhat, Jody S NWD02
Subject: (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

JODY- Please review and revise as you wish--I will get it out as soon as you give it the green light.

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE



U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

NEWS RELEASE

Release No: 060711-1

For Immediate Release: July 6, 2011

Contact: Joint Information Center (402) 996-3877

MRJIC@usace.army.mil

Corps to increase releases at Fort Peck

Omaha, Neb.—The U.S. Army Corps of Engineers will increase releases from Fort Peck reservoir from the planned 50,000 cubic feet per second to 55,000 cfs.

Jody Farhat, Chief of the Missouri River Water Management office, says the increase, slated for Friday, June 10, is due to continued high runoff into the reservoir this week, including rain over the reservoir in the last 24 hours.

"Inflows into Fort Peck have been averaging above forecasted levels while inflows to the Garrison reservoir have been averaging a little below forecasted levels. As a result, releases at Fort Peck will be increased to better balance the remaining storage between Fort Peck and Garrison," says Farhat. Peak releases are expected to continue well into August. This change in Fort Peck releases is not expected to impact the planned peak releases of 150,000 cfs at the other five mainstem dams.

During flood response activities, the Corps will provide regular updates directly to the public via its Facebook (www.facebook.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476599x-551987>>) and Twitter accounts (www.twitter.com/OmahaUSACE <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476598x-76656>>).

View daily and forecasted reservoir and river information on the Water Management section of the Northwestern Division homepage at: <http://www.nwd-mr.usace.army.mil/rcc> <<http://USACEARMY.pr-optout.com/Url.aspx?520028x476601x-506026>> .

Other links of interest:

<http://www.nwo.usace.army.mil/html/op-e/flood.html>
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476600x-30692>>

www.facebook.com/OmahaUSACE
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476599x-551987>>

U.S. Army Corps of Engineers – Omaha District 1616 Capitol Ave., Omaha, Neb. 68102

<http://www.nwo.usace.army.mil/>

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· www.mraps.org
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476596x-122624>>

· www.moriverrecovery.org
<<http://USACEARMY.pr-optout.com/Url.aspx?520028x476595x-643921>>

###

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 4:17 PM
To: [REDACTED] NWD
Subject: RE: tonight's remarks (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Very good. I'll fill in the numbers and use it tonight!

Thanks!

Jody

-----Original Message-----

From: [REDACTED] NWD
Sent: Tuesday, June 07, 2011 4:08 PM
To: Farhat, Jody S NWD02
Subject: tonight's remarks (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,

Here is a rough sketch of what I was thinking you could say ... sorry, I failed to get all the data you noted written down and Kevin has been tied up in meetings. So hopefully this gives you a good start. Am happy to review whatever you end up with are you comfortable enough with the back of the envelope calculations to make this point tonight?

[REDACTED]

I continue to be asked in various interviews whether we should have released more water earlier from our reservoirs this spring. On January 28, 2011, the full flood capacity of the Missouri River reservoir system was available for this year's runoff season -- the reservoir was at the desired 56.8 Million Acre Feet prescribed by the Master Manual. At that point, and all the way through the first of May, we had no reason to think we needed to increase releases.

However, assuming we had a crystal ball and could have predicted on March 1, 2011 the amount of precipitation we would receive in the upper basin from XXXXX - XXXXXX, I asked one of my engineers to determine what we would have had to start releasing to have preventedXXXXXXX.

Our back of the envelope calculations indicate that we would have needed to increase releases to 90,000 cfs by XXXX and sustained that amount through XXXXX to XXXXXXXX.

I mention this only to highlight that even if we could have predicted the heavy May rainfall event, we would still have been making record releases out of our dams, only at a much earlier point in the spring and for a more sustained period. This still would have resulted in flooding throughout the Missouri River Basin. This of course assumes we even could have made such releases without concern for ice jams.

[REDACTED]
[REDACTED] Northwestern Division,
Portland OR [REDACTED] (Attorney Client and/or Attorney Work Product-- DO NOT RELEASE UNDER
FOIA OR OUTSIDE USACE)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

~~Confidential~~ NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 4:47 PM
To: ~~_____~~ NWO
Subject: RE: Garrison Spillway (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Thanks, ~~_____~~ Great report.

-----Original Message-----

From: ~~_____~~ NWO
Sent: Tuesday, June 07, 2011 4:37 PM
To: DLL-CENWO-OD-GA; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWO; Farhat, Jody S NWD02; ~~_____~~ NWD02; ~~_____~~ NWD02; ~~_____~~ NWD02; ~~_____~~ NWO; ~~_____~~ NWO; ~~_____~~ NWS
Subject: Garrison Spillway (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Good news!

As of 4:00 pm today, all 28 spillway gates at Garrison Project were open and we are not seeing any indications of problems with our spillway slab. Despite some speculation regarding issues with siltation upstream of the East gates, they opened fine and the silt is on its way to Omaha.

This morning, with 23 gates open, we had significant backwater into the wildlife management area located downstream. We had 5 to 6 feet of water in our spillway pond recreation area and had water backing up along the road adjacent to our downstream recreation area. Sometime this afternoon, the pilot channel blew open and we drained nearly all the backwater. We now have a very efficient channel from the spillway pond to the river and were able to get in to observe our spillway pond recreation area. We only have minor damages and are confident that we can now further increase releases from the spillway without additional impacts to our facilities.

We are currently releasing 30,000 cfs via the spillway with all gates open to 1 foot and gate 14 open to approximately 2 feet.

~~_____~~

~~_____~~
Garrison Project

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 6:49 PM
To: Farmer, Monique L NWO; Fredlund, Diana J NWP
Cc: Quinn, Kevin R NWO
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 7 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

Diana - here are my talking points, I only speak from the first page; the remaining pages are my list of talking points. The Omaha District has already issued a press release regarding the change in Fort Peck releases. Kevin Quinn or Monique can provide you a copy.

Thanks, Jody

-----Original Message-----

From: Farmer, Monique L NWO
Sent: Tuesday, June 07, 2011 6:32 PM
To: Fredlund, Diana J NWP
Cc: Farhat, Jody S NWD02
Subject: RE: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

She did not provide them yet. All I have is Kim's. Coming...

-----Original Message-----

From: Fredlund, Diana J NWP
Sent: Tuesday, June 07, 2011 5:21 PM
To: Farmer, Monique L NWO
Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Can you get me a copy of Jody's talking points? I'm preparing a news release for distribution after the call tonight and would like to include some of the same info.

Thanks.
Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

Subject: FW: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Caveats: NONE

FYI

To: Farhat, Jody S NWD02; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; Austin, [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; M [REDACTED] Rev E [REDACTED] NWO; K [REDACTED],
[REDACTED] D NWD02; [REDACTED] NWD02; [REDACTED] NWD02; S [REDACTED] NWD02; [REDACTED]
Ronald G. NWO; P [REDACTED] NWD02

Subject: Re: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Roger. Thanks, Jody. Keep up the great work!

Vr/John McMahon

----- Original Message -----

From: Farhat, Jody S NWD02

To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWK; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] Smith, [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO

Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02

Sent: Tue Jun 07 12:30:40 2011

Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FTPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

2011 Missouri River Flood Talking Points
Missouri River Water Management
7 June 2011

This afternoon we posted an updated reservoir forecast on our website which shows a slight change in our release schedule from yesterday. The current forecast indicates that the peak release from Fort Peck Dam in Montana will increase from the planned 50,000 cubic feet per second to 55,000 cfs.

The increase, slated for Friday, June 10, is due to continued high runoff into the reservoir this week, including rain directly over the reservoir in the last 24 hours.

Inflows into Fort Peck have been averaging above forecasted levels while inflows to the Garrison reservoir have been averaging slightly below forecasted levels. As a result, releases at Fort Peck will be increased to better balance the flood storage between Fort Peck and Garrison.

The Omaha District is currently in the process of assessing the likely impacts of the increase on communities downstream of Fort Peck Dam. This change in Fort Peck releases is not expected to impact the planned peak releases of 150,000 cfs at the other five mainstem dams.

Planned releases at the 6 dams based on the forecast we posted on the web this afternoon are as follows:

- Fort Peck –Releases today 50,000 cfs, increasing to 55,000 cfs on Friday.
- Garrison –130,000 cfs today, holding at that level tomorrow and Thursday, then gradually stepping up to 150,000 cfs by late next week.
- Oahe and Big Bend –Releases today reached the anticipated peak level of 150,000 cfs.
- Fort Randall – 137,000 cfs today, holding at that rate tomorrow, then gradually stepping up to the peak release of approximately 148,000 cfs by the middle of next week.
- Gavins Point – 130,000 cfs today, going to 140,000 cfs tomorrow, then gradually stepping up to the peak release of 150,000 cfs by the middle of next week.

We remind you that our updated forecast will be posted on the web each afternoon.

The forecast is based on best available information at this time; actual releases are based on conditions on the ground and are subject to change.

Peak releases are expected to continue well into August.

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between 1989 and 2004, analyzed the potential to provide additional flood control storage

by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.
 - Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.

- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997
- Master Manual: We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

- Duration: We are also getting many questions regarding the duration of the high flows. These peak releases will likely extend well into August. Our reservoir forecast posted on the web shows Fort Peck still in the surcharge pool, and Garrison and Oahe still in their exclusive flood control pools on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies to our mainstem dams as well as impacted communities, infrastructure and flood risk mitigation projects downstream of the dams. Over the next several days we will be looking at several scenarios for evacuating the flood water stored in the mainstem reservoir system and will provide better estimates when they become available.

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 6:57 PM
To: [REDACTED] NWO
Cc: [REDACTED], Michael A NWD02, [REDACTED] NWD02; Subczyn, David F NWO; Evenson, Dale W NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Todd - thanks for the update. No problem on the inspection - I was just curious - and I don't have any concerns from a WM standpoint.

Thanks,
Jody

-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 4:23 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody,
Currently, we have the following releases:
30,000 cfs via spillway
30,000 cfs via power plant
70,000 cfs via regulating tunnels

All 28 spillway gates are open 1 foot. Gate 14 is open approximately 2 feet.

We are still trying to work the logistics of a shutdown of the regulating tunnels. We want to inspect them but have been advised by an engineer from the Seattle District that some of their DM's do not allow this due to issues with backflow against the generating units. We're trying to determine if that would be an issue, plus have to work the logistics of getting a crane in place, how to get into the tunnels, which ones to inspect, etc. I just haven't had time to work this yet.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:48 PM
To: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] - how are flows being divided between the spillway and regulating tunnels today, and do you intend to shut off the regulating tunnels at some time to do an inspection?

Also, how far are the gates open, and are they all open the same amount?

Jody

-----Original Message-----

From: [REDACTED] NWO

Sent: Tuesday, June 07, 2011 12:42 PM

To: Farhat, Jody S NWD02; Williamson, Eileen L NWO

Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Eileen,

Please remove the second bullet and revise the third one to reflect the following.

At 4:00 pm today, we will have all 28 spillway gates open to pass flood waters.

Yet, another "record"...

-----Original Message-----

From: Farhat, Jody S NWD02

Sent: Tuesday, June 07, 2011 12:40 PM

To: Williamson, Eileen L NWO

Cc: [REDACTED] NWO; [REDACTED] NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Just remove the second bullet under Garrison. You might update the 3rd bullet to say the spillway is being used to pass flood waters.

Thanks,

Jody

-----Original Message-----

From: Williamson, Eileen L NWO

Sent: Tuesday, June 07, 2011 12:36 PM

To: Farhat, Jody S NWD02

Cc: [REDACTED] NWO; [REDACTED] NWO

Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Can you tell me what it should say tomorrow?>

This is what it says for

Fort Peck

- Peak release will be 50,000 cfs by no later than mid June.
- Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

- Releases will be stepped up to 150,000 cfs by mid June.
- Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- First time in history, spillway gates will be used to pass floodwaters.

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 12:33 PM
To: Williamson, Eileen L NWO
Cc: [REDACTED] NWO
Subject: RE: Riverwatch Daily Update June 7, 2011 (UNCLASSIFIED)

Eileen - just got a call from [REDACTED] at Garrison. He noted that the Riverwatch still indicates that we will utilize several feet of surcharge storage at Garrison. That's no longer the case based on recent forecasts (no pool levels above 1854) so can you remove the statement from the next edition.

[illegible]

3

* 24-hr Change (+0.0ft)

Daily Avg. Inflow

* 51,000 cfs (6 Jun)

* 52,000 cfs (5 Jun)

Daily Avg. Release

* 43,000 cfs (6 Jun)

* 36,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use

Zone (Elevation)

* 2234 ft msl - 2246 ft msl

Exclusive Flood Ctrl Zone

(Elevation)

* 2246 ft msl - 2250 ft msl

Top of Spillway Gates

* 2250 ft msl

Planned Scheduled Releases (Subject to Change)

* Peak release will be 50,000 cfs by no later than mid June.

* Reservoir will use several feet of surcharge storage above the exclusive flood control pool as spillway gates are raised.

Record Pool Elevation (Year)

* 2251.6 msl (1975)

Record Flow (Year)

* 35,000 cfs (1975)

Projected Record Flow (Date)

* 50,000 cfs (Mid June)

Garrison(In operation since 1955)

Midnight Elevation

* 1853.4 ft msl

* 24-hr Change (-0.1 ft)

Daily Avg. Inflow

* 97,000 cfs (6 Jun)

* 100,000 cfs (5 Jun)

Daily Avg. Release

* 118,300 cfs (6 Jun)

* 115,300 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1837.5 ft msl - 1850 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1850 ft msl - 1854 ft msl

Top of Spillway Gates

* 1854 ft msl

River Stage (Bismarck)

- * 17.01 (0515 CDT 7 Jun)
- * Flood stage - 16 ft
- * 17.23 (0715 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will use several feet of surcharge storage above exclusive flood control pool as spillway gates are raised.
- * First time in history, spillway gates will be used to pass floodwaters.

Record Pool Elevation (Year)

- * 1854.8 msl (1975)

Record Flow (Year)

- * 65,000 cfs (1975)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Oahe(In operation since 1962)

Midnight Elevation

- * 1619.2 ft msl
- * 24-hr Change (+0.1 ft)

Daily Avg. Inflow

- * 137,000 cfs (6 Jun)

* 133,000 cfs (5 Jun)

Daily Avg. Release

* 137,600 cfs (6 Jun)

* 126,800 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1607.5 ft msl - 1620 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1617 ft msl - 1620 ft msl

Top of Spillway Gates

* 1620 ft msl

River Stage (Pierre)

* 18.34 (0531 CDT 7 Jun)

* Flood stage - 15 ft

* 18.07 (0730 CDT 6 Jun)

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

* Reservoir will peak within a foot of the top of the spillway gates at 1619 feet.

Record Pool Elevation (Year)

* 1618.7 msl (1995)

Record Flow (Year)

* 59,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Big Bend(In operation since 1964)

Midnight Elevation

* 1419.3 ft msl

* 24-hr Change (-0.0 ft)

Daily Avg. Inflow

* 129,000 cfs (6 Jun)

* 116,000 cfs (5 Jun)

Daily Avg. Release

* 128,200 cfs (6 Jun)

* 114,200 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1420 ft msl - 1423 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1422 ft msl - 1423 ft msl

Top of Spillway Gates

* 1423 ft msl

Planned Scheduled Releases (Subject to Change)

- * Releases will be stepped up to 150,000 cfs by mid June.
- * Reservoir will remain essentially level at 1420 feet.

Record Pool Elevation (Year)

- * 1422.1 msl (1991)

Record Flow (Date)

- * 74,000 cfs (1997)

Projected Record Flow (Date)

- * 150,000 cfs (Mid June)

Fort Randall(In operation since 1953)

Midnight Elevation

- * 1360.7 ft msl
- * 24-hr Change (+0.2 ft)

Daily Avg. Inflow

- * 133,000 cfs (6 Jun)
- * 120,000 cfs (5 Jun)

Daily Avg. Release

- * 121,600 cfs (6 Jun)
- * 112,400 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1350 ft msl - 1375 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1365 ft msl - 1375 ft msl

Top of Spillway Gates

* 1375 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1372.2 msl (1997)

Record Flow (Date)

* 67,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Gavins Point(In operation since 1955)

Midnight Elevation

* 1206.5 ft msl

* 24-hr Change (+0.2 ft)

Daily Avg. Inflow

* 118,000 cfs (6 Jun)

* 104,000 cfs (5 Jun)

Daily Avg. Release

* 115,500 cfs (6 Jun)

* 101,900 cfs (5 Jun)

Annual Flood Ctrl & Multi-Use Zone (Elevation)

* 1204.5 ft msl - 1210 ft msl

Exclusive Flood Ctrl Zone (Elevation)

* 1208 ft msl - 1210 ft msl

Top of Spillway Gates

* 1210 ft msl

Planned Scheduled Releases (Subject to Change)

* Releases will be stepped up to 150,000 cfs by mid June.

Record Pool Elevation (Year)

* 1209.7 msl (2010)

Record Flow (Date)

* 70,000 cfs (1997)

Projected Record Flow (Date)

* 150,000 cfs (Mid June)

Source of information: <http://www.nwd-mr.usace.army.mil/rcc>

Missouri River Mainstem 24-Hour Forecast Conditions (Updated 7 Jun; 0735 CDT)

24-hr forecast (Glasgow, MT)

Today: Showers and possibly a thunderstorm. Some storms could produce heavy rainfall. High near 58. Windy, with a northeast wind from 23 to 30 mph, with gusts as high as 40 mph. Chance of precipitation is 100%.

Tonight: Showers likely, mainly before midnight. Mostly cloudy, with a low around 45. Breezy, with a north wind 19 to 22 mph becoming east 5 to 8 mph. Winds could gust as high as 28 mph. Chance of precipitation is 70%.

Wednesday: A 20% chance of showers after noon. Partly sunny, with a high near 62. Northeast wind 5 to 11 mph becoming southeast.

24-hr forecast (Williston, ND)

Today: Showers and possibly a t-storm. Some storms could be severe and produce heavy rainfall. High near 61. Breezy, with a east wind from 21 to 23 mph, with gusts as high as 32 mph. Chance of precipitation is 80%. New rainfall amounts between a quarter and half of an inch possible.

Tonight: Showers likely, mainly before 1am. Cloudy, with a low around 44. Breezy, with a north wind 19 to 22 mph decreasing to from 8 to 11 mph. Winds could gust as high as 31 mph. Chance of precipitation is 70%. New rainfall amounts from a .10 and .25 of an inch possible.

Wednesday: A 20% chance of showers. Mostly cloudy, with a high near 64. North wind around 7 mph.

24-hr forecast (Riverdale, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Cloudy, with a high near 67. Breezy, with a east wind from 13 to 23 mph, gusts as high as 32 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: Showers likely, mainly before 1am. Mostly cloudy, with a low around 46. North wind from 14 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 60%. New rainfall amounts between a .10 and .25 of an inch possible.

Wednesday: A 30% chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 10 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Washburn, ND)

Today: A 50% chance of showers and t-storms. Some storms could be severe. Mostly cloudy, with a high near 67. Breezy, with a east wind from 13 to 21 mph, gusts as high as 29 mph. New rainfall amounts between a .10 and .25 of an inch, except higher amounts possible in t-storms.

Tonight: A chance of showers and t-storms. Mostly cloudy, with a low around 46. North wind from 13 to 16 mph, gusts as high as 23 mph. Chance of precipitation is 50%.

Wednesday: A 30 % chance of showers, mainly before 1pm. Mostly cloudy, with a high near 60. North wind between 11 and 14 mph, gusts as high as 20 mph

24-hr forecast (Bismarck/Mandan, ND)

Today: A 40 percent chance of showers and thunderstorms. Some of the storms could be severe. Mostly cloudy, with a high near 74. Breezy, with a east wind 17 to 20 mph becoming east 8 to 11 mph. Winds could gust as high as 28 mph.

Tonight: A chance of showers and thunderstorms. Mostly cloudy, with a low around 49. Northwest wind between 11 and 16 mph, with gusts as high as 23 mph. Chance of precipitation is 30%.

Wednesday: A 30 percent chance of showers, mainly before 1pm. Mostly cloudy, with a high near 61. North wind between 13 and 15 mph, with gusts as high as 21 mph.

24-hr forecast (Pierre, SD)

Today: Sunny, with a high near 87. Breezy, with a south wind 15 to 18 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 53. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 65. North northwest wind between 14 and 18 mph.

24-hr forecast (Ft. Pierre, SD)

Today: Sunny, with a high near 88. Breezy, with a south wind 14 to 17 mph becoming west between 25 and 28 mph. Winds could gust as high as 39 mph.

Tonight: Mostly clear, with a low around 54. Breezy, with a west wind between 17 and 20 mph.

Wednesday: Mostly sunny, with a high near 66. North northwest wind between 14 and 18 mph.

24-hr forecast (Lower Brule, SD)

Today: Sunny, with a high near 89. Breezy, with a southwest wind between 17 and 25 mph, with gusts as high as 36 mph.

Tonight: Mostly clear, with a low around 55. West wind between 13 and 18 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 15 and 17 mph.

24-hr forecast (Chamberlain, SD)

Today: Sunny, with a high near 87. Breezy, with a southwest wind between 17 and 24 mph, with gusts as high as 33 mph.

Tonight: Clear, with a low around 53. West wind between 10 and 17 mph, with gusts as high as 26 mph.

Wednesday: Mostly sunny, with a high near 67. North northwest wind between 14 and 18 mph, with gusts as high as 26 mph.

24-hr forecast (Yankton, SD)

Today: Sunny, with a high near 94. Breezy, with a south southwest wind between 15 and 22 mph, with gusts as high as 31 mph.

Tonight: Mostly clear, with a low around 60. South southwest wind 6 to 14 mph becoming west northwest.

Wednesday: Sunny, with a high near 74. North northwest wind between 13 and 16 mph.

24-hr forecast (Sioux City, IA)

Today: Sunny and hot, with a high near 95. Breezy, with a south southwest wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A slight chance of showers and thunderstorms after 10pm. Mostly clear, with a low around 66. South southwest wind between 6 and 14 mph. Chance of precipitation is 20%.

Wednesday: Sunny, with a high near 78. North northwest wind between 9 and 14 mph.

24-hr forecast (Omaha, NE)

Today: Sunny and hot, with a high near 98. Breezy, with a south wind between 14 and 22 mph, with gusts as high as 31 mph.

Tonight: A 20 percent chance of showers and thunderstorms after 1am. Partly cloudy, with a low around 72. South wind between 9 and 17 mph, with gusts as high as 26 mph.

Wednesday: A 20 percent chance of showers and thunderstorms after 1pm. Mostly sunny, with a high near 86. South wind 6 to 8 mph becoming north northwest.

Source of information: <http://www.weather.gov/>

Internet: <http://www.nwo.usace.army.mil>

Facebook: <http://www.facebook.com/OmahaUSACE>

Twitter: <http://www.twitter.com/OmahaUSACE>

YouTube: <http://www.youtube.com/OmahaUSACE>

Flickr: <http://www.flickr.com/photos/omahausace>

Missouri River Flooding (Logistics) (Updated 7 Jun; 0735 CDT)

Personnel Deployed

5 (Glasgow, MT)

9 (Lander, WY)

14 (Bismarck, ND)
4 (Fort Yates, ND)
4 (Williston, ND)
1 (Minot, ND)
3 (Pierre, SD)
1 (Kansas City, MO)
5 (Sioux City, IA)
4 (Dakota Dunes, SD)
6 (S. Sioux City, NE)
2 (Missouri River Survey)
1 (Decatur, NE)
3 (Offutt, NE)
6 (North Platte, NE)
4 (Roundup, MT)
1 (Dakota City, SD)

Equipment Deployed

HESCO

Issued: 35,370 LF

On Hand: 17,230 LF

Projected Outstanding Requirements: 34,770 LF

Currently working on: 19,000 LF due in from Louisiana Sunday

Poly Rolls

Issued: 2076 rolls

On Hand: 1041 rolls.

Projected Outstanding Requirements: 1500 rolls

700 rolls coming in from MN

Pumps

Issued: 16 pumps

On Hand: 7 (2-12" and 5-16") Sorting hoses

Projected Outstanding Requirements: 12 pumps

Additional Supplies due in:

Sandbags: 1.4 M due in 7/7 Jun

HESCO: 12,635 LF due in 6/7 Jun

Poly Roll: 1500 due in 6/7 Jun

Pumps: 7-8" and 2-12" with hoses due in 6 Jun

Sandbags

Issued: 13.7 M

On Hand: 4,923,500

Projected Outstanding Requirements: 6.5 M

Currently working on: Contracting has 2.5 M due in from Vendor Jun 8th,

650K due in from NWS

Source of information: CMT Brief (6 Jun 11)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

From: [REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 7:15 PM
To: [REDACTED], Rayla A NWO
Subject: RE: Question from Thune (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] -
Sorry for the delay getting back to you.

Our quick "back of the envelope" analysis showed that even if we had know this historic runoff was coming, record releases from all 6 mainstem dams would have been necessary to handle the runoff. Based on our forecasted 44 MAF of runoff from March through July, we would likely have needed releases in the range of 85,000 to 90,000 cfs from the lower 5 dams for the period of 1 March through this fall. Although significantly lower than the planned release, these would be far above previous records and they would have needed to begin on 1 March when the river was still ice covered. Had we waited until the ice went off the river and the plains snowpack melted, releases of over 100,000 cfs would certainly have been required.

In reality, we had no basis on which to increase flows to historic levels until the extraordinary rainfall event which resulted in a record runoff in May.

Again, this is just a quick analysis. A more detailed review will be conducted following the flooding this year to assess the operation of the reservoir system, its effects, and to learn where improvements or adjustments might be warranted. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.

Let me know if you have any questions.

Jody

-----Original Message-----

From: [REDACTED], Rayla A NWO
Sent: Monday, June 06, 2011 4:55 PM
To: Farhat, Jody S NWD02
Subject: FW: Question from Thune

Jody - can you help me with answers for the questions below.

Thanks,
[REDACTED]

-----Original Message-----

From: Schwietert, David (Thune) [mailto:d_schwietert@thune.senate.gov]
Sent: Monday, June 06, 2011 4:33 PM
To: [REDACTED], Rayla A NWO
Subject: Question from Thune

I talked to the Senator earlier today and he was curious what the modeling would show if the Corps had released additional water from Garrison/Oahe starting at the beginning of this year.

For instance, if both reservoirs had releases at their record flows (65,000 cfs and 59,000 cfs) what would that have done to free up additional space in the flood control zone.

Something tells me that even if these elevated releases occurred between January and May, there would still need to be record releases out of both dams (higher than the previous record flows) to accommodate the high precipitation/runoff.

Above all, I think this would help to show what today's situation would be if such releases were put in place from Jan-May. Something tells me that based on the amount of precipitation/runoff that we've witnessed, it would still have likely required 100+ cfs out of both dams.

Does this make sense?

Thanks,

Dave

David Schwietert

Legislative Director

U.S. Senator John Thune (R-SD)

511 Dirksen Senate Office Building

Washington, DC 20510

202-228-5340 (direct)

866-850-3855 (toll free number)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 7:24 PM
To: [REDACTED], Kayla A NWO
Cc: [REDACTED] NWO; [REDACTED] NWD02
Subject: RE: Timeline request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] and Greg,
We can pull daily reservoir levels and releases out of our database and provide those if needed. Archived daily precipitation information is available on the NWS website at <http://water.weather.gov/precip/>

Another good source of information is the many press releases Water Management and the Omaha District have issued since the first of May. They're available on the website and will provide information at key points in time when operation of the system was changing due to weather conditions.

We'd be happy to provide that type information now, but if it's the analysis they want, it will have to wait for the post flood report for that information as [REDACTED] indicated.

Jody

-----Original Message-----

From: [REDACTED], Kayla A NWO
Sent: Tuesday, June 07, 2011 3:02 PM
To: Farhat, Jody S NWD02
Cc: [REDACTED] NWO; [REDACTED] NWD02
Subject: FW: Timeline request (UNCLASSIFIED)

Jody - I think this is similar to the question yesterday from Thune's office that you were working the answer for last night. Is there someone else you'd like me to help coordinate with on this to get it off your plate?

[REDACTED]
-----Original Message-----

From: [REDACTED] NWO
Sent: Tuesday, June 07, 2011 2:47 PM
To: [REDACTED], Kayla A NWO
Subject: RE: Timeline request (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED]
This is really a question for Jody (and maybe Remus' folks). Does the Senator really need it now? I'm sure that the rainfall and runoff would be part of the analysis of the post-flood report which would come late summer and fall.

Do you want me to forward it to Jody or will you?

-----Original Message-----

From: MRJIC

Sent: Tuesday, June 07, 2011 2:41 PM

To: [REDACTED] NWO; [REDACTED] NWO

Subject: FW: Timeline request (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

-----Original Message-----

From: Flickner, Ryan (Roberts) [<mailto:Ryan.Flickner@roberts.senate.gov>]

Sent: Tuesday, June 07, 2011 2:33 PM

To: MRJIC

Subject: Timeline request

Can you provide a timeline of reservoir levels and rainfall events? We have constituent inquiries as to when specific rainfall events occurred and how the inflows/discharges to the main stem reservoirs were impacted.

Thank you,

Ryan

Ryan Flickner

Senior Agriculture Policy Advisor

U.S. Senator Pat Roberts (R-KS)

109 Hart Senate Office Building

Washington, DC 20510-1605

Phone: 202-224-4774

Fax: 202-224-3514

<http://roberts.senate.gov> <<http://roberts.senate.gov/>>

FaceBook-32x32[1] <<http://www.facebook.com/SenPatRoberts>> senate_logo
<<http://www.roberts.senate.gov/>> Youtube-32x32[1] <<http://www.youtube.com/SenPatRoberts>>
[cid:image004.png@01CB66F9.FE728900](#) <<http://www.twitter.com/SenPatRoberts>>

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 7:31 PM
To: Blair, Amy E NWK; [REDACTED]; Eugene S NWK; Blechinger, Erik T NWO
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Let's wait and see what he asks in his more detailed question.

But FYI, records of previous floods are available from the USGS. Since the system was built, floods of this magnitude have been eliminated from the upper basin until this year. Downstream locations have continued to endure some flooding, though at a lower level and lower frequency than prior to the construction of the reservoir system. In addition, the ability of the system to reduce flood risk decreases the further downstream you go.

An answer like that may satisfy his request.

Jody

-----Original Message-----

From: Blair, Amy E NWK
Sent: Monday, June 06, 2011 6:58 PM
To: Farhat, Jody S NWD02; [REDACTED] NWK; Blechinger, Erik T NWO
Subject: FW: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Is this something we have a record of? My guess is that he was not on the call this evening to hear discussions about comparison of floods and origins. You can see where he is going with this line of thought.

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:55 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases (UNCLASSIFIED)

I will send a more detailed question later this week, but basically how many times has locations north of Gavins point flooded vs locations south?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:52 PM
To: Matousek, Mike
Subject: RE: Missouri River Reservoir Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Can you be a little bit more specific as to what you mean?

-----Original Message-----

From: Matousek, Mike [<mailto:Mike.Matousek@mail.house.gov>]
Sent: Monday, June 06, 2011 6:51 PM
To: Blair, Amy E NWK
Subject: Re: Missouri River Reservoir Releases

Thanks amy. Does the corps have statistics on upper river flooding vs lower river flooding?

Sent using BlackBerry

----- Original Message -----

From: Blair, Amy E NWK [<mailto:Amy.E.Blair@usace.army.mil>]
Sent: Monday, June 06, 2011 07:31 PM
To: Matousek, Mike
Cc: [REDACTED] NWK [REDACTED]@usace.army.mil>
Subject: Missouri River Reservoir Releases

Mike, I am not sure if you are participating in the CODEL calls at 6 pm CDT, but on the call tonight someone asked to what degree we are operating for fish and wildlife. Jodi Farhat of RCC stated that since mid-August 2010 all releases have been based solely on flood control.

I thought this piece of info would be good for you to have in mind.

Amy E. Blair
USACE-Kansas City District
816.728.3651

Message sent via my BlackBerry Wireless Device

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Burke, Linda P NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 9:10 AM
To: **[REDACTED] NWO**
Subject: RE: Today's Staff Notes (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Todd - I would like to stay on your distribution list.

Thanks,
Jody

-----Original Message-----

From: **[REDACTED] NWO**
Sent: Wednesday, June 08, 2011 8:21 AM
To: DLL-CENWO-OD-GA; **[REDACTED] NWO**; **[REDACTED] NWD02**; **[REDACTED] POD**; **[REDACTED]**
[REDACTED] NWO; **[REDACTED] NWO**; **[REDACTED] NWO**
Cc: **[REDACTED] NWO**; **[REDACTED] NWO**; **[REDACTED] NWO**; **[REDACTED] NWO**; **[REDACTED] NWO**; **[REDACTED] NWO**
[REDACTED] NWO; **[REDACTED] NWD02**; **[REDACTED] HQ02**
Subject: Today's Staff Notes (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,
I've attached the first edition of what will be our daily Garrison Project Flood Fight Staff Notes. The content of the staff notes will evolve with the flood fight and needs of personnel. If you have any suggestions which would improve the usefulness of the staff notes, please let me know.
Thanks!
Todd

P.S. Anyone in the cc list needs to let me know if they'd like to be added to my daily distribution and/or if there are others I should add? If I do not hear back from you, I will remove you from the distribution. I do not want to add unneeded information to your in-box!

[REDACTED]
[REDACTED]
Operations Project Manager
Garrison Project

Classification: UNCLASSIFIED
Caveats: FOUO

Classification: UNCLASSIFIED
Caveats: FOUO

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 9:14 AM
To: [REDACTED] NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02
Subject: RE: Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] and/or [REDACTED],

Can you tell [REDACTED] the thought process behind the release schedule?

Jody

-----Original Message-----

From: [REDACTED] NWO
Sent: Wednesday, June 08, 2011 6:50 AM
To: Farhat, Jody S NWD02
Subject: Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody:

Why are we coming up faster (on releases) at Garrison and Oahe, than Ft Randall and Gavins and putting water in Lake Francis Case? - I think I know the answer to that one so let me ask you a different question - why aren't we coming up faster on our FR and GP releases? Do we have to take LFC up over 1362?

Thanks,

[REDACTED]
Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 9:58 AM
To: Williamson, Eileen L NWO; Farmer, Monique L NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - The increase in Fort Peck releases isn't planned until Friday, and now we are anticipating that the new number will be 60,000 based on the huge inflow seen today. My recommendation is leave in the statement about the inflows, but take off the statement about the releases since it's likely to change by this afternoon.

Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 9:44 AM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Subject: FW: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

TP on today's Riverwatch.

I want to put the following statement with the Riverwatch when it goes out today, want to make sure it is accurate.

Rainfall in the Fort Peck area and over much of Montana over the last 24-hours ranged from a half inch to more than two and a half inches resulting in inflows into Fort Peck doubling from the previous day. Releases from Fort Peck were increased to 55,000 cubic feet per second on Tuesday. The releases from the remaining five mainstem dams is not projected to change.

-----Original Message-----

From: [REDACTED] NWD02
Sent: Wednesday, June 08, 2011 8:58 AM
To: Williamson, Eileen L NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Yes. Remember, it rained directly on the reservoir.

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 8:56 AM
To: [REDACTED] NWD02
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Was the inflow REALLY twice yesterday than the day before?!

-----Original Message-----

From: [REDACTED] NWD02

Sent: Wednesday, June 08, 2011 8:47 AM

To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR

Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO

Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

Fort Peck Dam (MT)

6/7 Pool Elev: 2250.9 ft-msl

24-hr change: 0.4'

6/7 Ave Inflow: 101,000 cfs

6/7 Ave Release: 48,500 cfs

6/8 Scheduled Release: 50,000 cfs

Garrison Dam (ND)

6/7 Pool Elev: 1853.4 ft-msl

24-hr change: 0.0

6/7 Ave Inflow: 104,000 cfs

6/7 Ave Release: 125,400 cfs

6/8 Scheduled Release: 130,000 cfs

Oahe Dam (SD)

6/7 Pool Elev: 1619.1 ft-msl

24-hr change: -0.1'

6/7 Ave Inflow: 144,000 cfs

6/7 Ave Release: 147,000 cfs

6/8 Scheduled Release: 150,000 cfs

Big Bend Dam (SD)

6/7 Pool Elev: 1419.7 ft-msl

24-hr change: 0.4'

6/7 Ave Inflow: 143,000 cfs

6/7 Ave Release: 131,900 cfs

6/8 Scheduled Release: 150,000 cfs

Fort Randall Dam (SD)

6/7 Pool Elev: 1360.8 ft-msl

24-hr change: 0.1'

6/7 Ave Inflow: 143,000 cfs

6/7 Ave Release: 132,700 cfs

6/8 Scheduled Release: 137,000 cfs

Gavins Point Dam (NE-SD)

6/7 Pool Elev: 1206.8 ft-msl

24-hr change: 0.3'

6/7 Ave Inflow: 129,000 cfs

6/7 Ave Release: 125,500 cfs

6/8 Scheduled Release: 140,000 cfs

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 10:03 AM
To: Gross, Sarah LRC
Subject: RE: Request for Interview (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sounds more like an impacts discussion (inundation mapping and levees discussion) that would be better handled by the Omaha District. I could participate if he wants to talk about how we got here and what our releases are going to be.

Can you see if [REDACTED] is available?

Jody

-----Original Message-----

From: Gross, Sarah LRC
Sent: Wednesday, June 08, 2011 9:58 AM
To: Farhat, Jody S NWD02
Subject: Request for Interview (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Jody, Jason Meakaer with Successful Farming Magazine out of northern Iowa will be in the Omaha area this Friday and plans to come into the office for a videotaped interview. He is free all day. Would you be able to take this request; if so, what timeframe, would you like for me to tell him to come in?

This video will be posted on Agriculture.com, and he wants to cover the concept of the different gate releases, current status of overall situation and the week's outlook and the potential impact on Missouri Valley farmers (or how we come to the conclusion to inundate certain areas).

Sarah D. Gross
Public Affairs Specialist
U.S. Army Corps of Engineers, Chicago District
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<http://www.flickr.com/photos/usacechicago>
Great Lakes and Mississippi River Interbasin Study (GLMRIS):
<http://glmris.anl.gov>
<http://facebook.com/glmris>

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 11:22 AM
To: Gross, Sarah LRC; [REDACTED] NWO
Subject: RE: Questions on Amtrak Rail Disruption due to Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I have no information on Amtrak. Suggest the reported deal directly with them.

-----Original Message-----

From: Gross, Sarah LRC
Sent: Wednesday, June 08, 2011 11:20 AM
To: [REDACTED] NWO
Cc: Farhat, Jody S NWD02
Subject: Questions on Amtrak Rail Disruption due to Flooding (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Reporter out of Hutchinson, Kansas wants to know about Amtrak rail closures in area. He said that closures will be until at least the 14. Below is what I pulled from an article. He mentioned a crest of 32 feet and diking being over the rails, but I do not know what region this pertains to. His deadline is noon, if you could just answer the general questions below for me. Thanks so much.

Amtrak: Amtrak announced that its California Zephyr service will be temporarily suspended between Denver and Chicago starting Friday. Amtrak officials said the suspension is due to Missouri River flooding projections and anticipated Burlington Northern Santa Fe Railway track closings in the Omaha area. The disruption will continue at least through June 14. Passengers should call 800-USA-RAIL for more information.

How do we work with Amtrak to make these closure decisions, or do they make them on their own based on potential inundation over the rails (I know that we cannot speak on behalf of Amtrak)?

Do we know which releases are affecting these closures?

Could there be any improvement over the next couple of days, or through the 14, in which the railways could reopen or not have to close?

I will give him the links to our daily river watch and inundation maps.

Sarah D. Gross
Public Affairs Specialist
U.S. Army Corps of Engineers, Chicago District
111 N. Canal St., Chicago IL, 60606
Sarah.D.Gross@usace.army.mil
Office: 312-846-5334
Mobile: 312-659-4354
<http://facebook.com/usacechicago>
<http://www.flickr.com/photos/usacechicago>
Great Lakes and Mississippi River Interbasin Study (GLMRIS):

<http://glmris.anl.gov>
<http://facebook.com/glmris>

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 11:29 AM
To: Williamson, Eileen L NWO
Cc: H [REDACTED] NWD02
Subject: RE: Riverwatch (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Just go with your original statement then, but correct the date to say Friday.

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 11:07 AM
To: Farhat, Jody S NWD02; [REDACTED] NWD02
Subject: Riverwatch (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

We have not yet released the Riverwatch document.

[REDACTED] ran it by [REDACTED] and the numbers are accurate.

Here is my question / concern because of double the inflows at Fort Peck

1. We did a press release yesterday saying that release would increase to 55,000 cfs
2. We can address how the release will affect releases at the other dams based on yesterday's (with emphasis that forecasts are subject to change)
3. We need to acknowledge the inflows and how we are watching them don't need detail just something.

And, we are getting asked for the document so need it up as soon as we can.

Thanks!

Eileen L. Williamson

Public Affairs Specialist

U.S. Army Corps of Engineers

Office: 402-995-2417

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Facebook: [facebook.com/OmahaUSACE](https://www.facebook.com/OmahaUSACE) <<http://www.facebook.com/OmahaUSACE>>

Twitter: [twitter.com/OmahaUSACE](https://www.twitter.com/OmahaUSACE) <<http://www.twitter.com/OmahaUSACE>>

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 11:32 AM
To: Williamson, Eileen L NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

This statement is fine

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 10:32 AM
To: Farhat, Jody S NWD02
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

How's this?

Rainfall in the Fort Peck area and over much of Montana over the last 24-hours ranged from a half inch to more than two and a half inches resulting in inflows into Fort Peck doubling from the previous day. Release from Fort Peck are being monitored with the inflows and releases from the remaining five mainstem dams is not projected to change.

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 9:58 AM
To: Williamson, Eileen L NWO; Farmer, Monique L NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eileen - The increase in Fort Peck releases isn't planned until Friday, and now we are anticipating that the new number will be 60,000 based on the huge inflow seen today. My recommendation is leave in the statement about the inflows, but take off the statement about the releases since it's likely to change by this afternoon.

Jody

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 9:44 AM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Subject: FW: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

TP on today's Riverwatch.

I want to put the following statement with the Riverwatch when it goes out today, want to make sure it is accurate.

Rainfall in the Fort Peck area and over much of Montana over the last 24-hours ranged from a half inch to more than two and a half inches resulting in inflows into Fort Peck doubling from the previous day. Releases from Fort Peck were increased to 55,000 cubic feet per second on Tuesday. The releases from the remaining five mainstem dams is not projected to change.

-----Original Message-----

From: [REDACTED] NWD02
Sent: Wednesday, June 08, 2011 8:58 AM
To: Williamson, Eileen L NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Yes. Remember, it rained directly on the reservoir.

-----Original Message-----

From: Williamson, Eileen L NWO
Sent: Wednesday, June 08, 2011 8:56 AM
To: H [REDACTED] NWD02
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Was the inflow REALLY twice yesterday than the day before?!

-----Original Message-----

From: [REDACTED] NWD02
Sent: Wednesday, June 08, 2011 8:47 AM
To: CENWO-EOC NWO; Williamson, Eileen L NWO; [REDACTED] MVR
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO
Subject: RE: Mainstem data for NWO sitrep 6/8/11 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Notes for data below: pool elevation is the midnight value; average inflows and average releases are average daily values; scheduled releases are the release from the project at the end of the day per yesterday's project orders.

Fort Peck Dam (MT)

6/7 Pool Elev: 2250.9 ft-msl

24-hr change: 0.4'

6/7 Ave Inflow: 101,000 cfs

6/7 Ave Release: 48,500 cfs

6/8 Scheduled Release: 50,000 cfs

Garrison Dam (ND)

6/7 Pool Elev: 1853.4 ft-msl

24-hr change: 0.0

6/7 Ave Inflow: 104,000 cfs

6/7 Ave Release: 125,400 cfs

6/8 Scheduled Release: 130,000 cfs

Oahe Dam (SD)

6/7 Pool Elev: 1619.1 ft-msl

24-hr change: -0.1'

6/7 Ave Inflow: 144,000 cfs

6/7 Ave Release: 147,000 cfs

6/8 Scheduled Release: 150,000 cfs

Big Bend Dam (SD)

6/7 Pool Elev: 1419.7 ft-msl

24-hr change: 0.4'

6/7 Ave Inflow: 143,000 cfs

6/7 Ave Release: 131,900 cfs

6/8 Scheduled Release: 150,000 cfs

Fort Randall Dam (SD)

6/7 Pool Elev: 1360.8 ft-msl

24-hr change: 0.1'

6/7 Ave Inflow: 143,000 cfs

6/7 Ave Release: 132,700 cfs

6/8 Scheduled Release: 137,000 cfs

Gavins Point Dam (NE-SD)

6/7 Pool Elev: 1206.8 ft-msl

24-hr change: 0.3'

6/7 Ave Inflow: 129,000 cfs

6/7 Ave Release: 125,500 cfs

6/8 Scheduled Release: 140,000 cfs

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 1:51 PM
To: [REDACTED] NWO; [REDACTED] HQ02
Cc: [REDACTED] NWO; [REDACTED] SWF; Thomas, Kimberly S NWO
Subject: RE: Tomorrow's Flood Update/Press Conference in Bismarck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

The talking points on peak releases are as follows:

- * There are many rumors floating around about the peak releases from the mainstem reservoirs. I assure you that based on the latest forecast, the highest level of release currently anticipated remains 150,000 cfs at the five lowest mainstem dams: Garrison, Oahe, Big Bend, Fort Randall and Gavins Point.
- * Peak releases have been increased at the uppermost dam, Fort Peck, but that increase is not expected to impact the planned peak releases at the other five dams. The increase at Fort Peck was necessary to better balance the flood control storage between Fort Peck and Garrison.

Jody

-----Original Message-----

From: [REDACTED] NWO
Sent: Wednesday, June 08, 2011 11:35 AM
To: Farhat, Jody S NWD02; [REDACTED] HQ02
Cc: [REDACTED] NWO; [REDACTED] SWF; Thomas, Kimberly S NWO
Subject: Tomorrow's Flood Update/Press Conference in Bismarck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

All,
I just received a phone call from Representative Rick Berg. He said that he's been hearing comments that the Corps is going to crank up the releases from Garrison, beyond the 150,000 cfs because of the gains we've seen in channel efficiencies at Bismarck. I assured him that was not our current plan and conveyed that if things changed significantly enough that we had to go beyond 150,000 cfs releases, it would require a tremendous amount of coordination, and potentially added protective measures, as that flow would have to be passed through the entire system below Garrison.

He asked that whoever attends the Flood Update meeting in Bismarck tomorrow morning at 0900 hours, address this issue to end this rumor and put folks minds at ease. I told him that I'd pass this on. Mark, I'm assuming you will be attending the meeting tomorrow for Matt, since he's headed back to Omaha? Jody, can you provide the talking points to Mark so he can address this, as requested by the Representative Berg?

Thanks,

[REDACTED]

[REDACTED]
[REDACTED]
Garrison Project

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 3:28 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] M NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] E NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] HQ02
Cc: [REDACTED] R NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: Update on Fort Peck releases (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - another update on Fort Peck releases. Due to the high inflows into Fort Peck, we need to show increasing releases from Fort Peck to 55,000 cfs tomorrow (Thursday) and 60,000 cfs on Friday. Inflows today were double yesterday's and are forecast to remain well above previously forecasted levels for the next 6 to 8 days. An additional increase to 65,000 cfs is not beyond the realm of possibility, but we will hold on that decision until we see if the forecasted inflows materialize in the next day or two.

This increase is not expected to impact the planned peak releases at the other five dams. The increase at Fort Peck was necessary to better balance the flood control storage between Fort Peck and Garrison.

VR,
Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Tuesday, June 07, 2011 2:31 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWK; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] R NWD02; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: Heads up on release schedule change at Fort Peck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - just a quick heads up before the 1640 Exec CMT call. Today's forecast indicates the need to increase Fort Peck's peak releases from the current rate of 50,000 cfs to 55,000 cfs on Friday of this week. The change is due to continued high runoff into Fort Peck reservoir this week including significant rain directly over the reservoir in the last 24 hours. Garrison's inflows have been averaging a little below forecasted levels so Fort Peck releases will be increased to better balance the remaining storage between FPK and GARR.

I'll talk about this change on the call tonight and Kevin Quinn is working on a press release.

Jody

Classification: UNCLASSIFIED

Caveats: NONE

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 4:28 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] HQ02; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO
Cc: [REDACTED] NWO; [REDACTED] SWF; Thomas, Kimberly S NWO
Subject: Release changes at Fort Peck ONLY (UNCLASSIFIED)

All - the latest forecast has been posted on the internet. Inflows into Fort Peck today were double what they were yesterday. As a result we are increasing Fort Peck releases high and sooner than shown on yesterday's forecast. The current schedule is to increase to 55,000 cfs tomorrow and 60,000 cfs on Friday. An additional increase to 65,000 cfs is not beyond the realm of possibility, but we want to make sure the inflow forecast verifies before making that decision.

As a result of this change, the forecast shows once again utilizing some surcharge storage in Garrison - about 1/2 foot, but the important thing is that this change does not require a change in our planned peak releases at the other 5 projects. The planned peak release of 150,000 cfs from Garrison to Gavins is still valid.

Any questions, give me a call.

Jody

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 1:51 PM
To: [REDACTED] NWO; [REDACTED] HQ02
Cc: [REDACTED] NWO; [REDACTED] SWF; Thomas, Kimberly S NWO
Subject: RE: Tomorrow's Flood Update/Press Conference in Bismarck (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

The talking points on peak releases are as follows:

* There are many rumors floating around about the peak releases from the mainstem reservoirs. I assure you that based on the latest forecast, the highest level of release currently anticipated remains 150,000 cfs at the five lowest mainstem dams: Garrison, Oahe, Big Bend, Fort Randall and Gavins Point.

* Peak releases have been increased at the uppermost dam, Fort Peck, but that increase is not expected to impact the planned peak releases at the other five dams. The increase at Fort Peck was necessary to better balance the flood control storage between Fort Peck and Garrison.

Jody

-----Original Message-----

From: [REDACTED] NWO
Sent: Wednesday, June 08, 2011 11:35 AM
To: Farhat, Jody S NWD02; [REDACTED] HQ02
Cc: [REDACTED] NWO; [REDACTED] SWF; Thomas, Kimberly S NWO
Subject: Tomorrow's Flood Update/Press Conference in Bismarck (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

All,
I just received a phone call from Representative Rick Berg. He said that he's been hearing comments that the Corps is going to crank up the releases from Garrison, beyond the 150,000 cfs because of the gains we've seen in channel efficiencies at Bismarck. I assured him that was not our current plan and conveyed that if things changed significantly enough that we had to go beyond 150,000 cfs releases, it would require a tremendous amount of coordination, and potentially added protective measures, as that flow would have to be passed through the entire system below Garrison.

He asked that whoever attends the Flood Update meeting in Bismarck tomorrow morning at 0900 hours, address this issue to end this rumor and put folks minds at ease. I told him that I'd pass this on. Mark, I'm assuming you will be attending the meeting tomorrow for Matt, since he's headed back to Omaha? Jody, can you provide the talking points to Mark so he can address this, as requested by the Representative Berg?

Thanks,

[REDACTED]

[REDACTED]

[REDACTED]

Garrison Project

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

Caveats: FOUO

NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 5:52 PM
To: Farhat, Jody S NWD02; McMahon, John R BG NWD; Tipton, Robert A Col NWD; Anderson, G Witt NWD; Ruch, Robert J COL NWO; Hofmann, Anthony J COL NWK; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] NWK; Blair, Amy E NWK; Williamson, Eileen L NWO; Farmer, Monique L NWO; Johnston, Paul T HQ@ NWO; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; Love, Raymond E MAJ NWD; [REDACTED] NWO; Krajewski, Matthew C NWO
Cc: [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; Kneferwinski, [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02
Subject: RE: WM Talking Points for 8 June stakeholder call (UNCLASSIFIED)
Attachments: 2011 Missouri River Flood Talking Points 8 Jun 2011.docx

Classification: UNCLASSIFIED
Caveats: NONE

FYSA

Classification: UNCLASSIFIED
Caveats: NONE

2011 Missouri River Flood Talking Points
Missouri River Water Management
8 June 2011

This afternoon we posted an updated reservoir forecast on our website which shows another change in our release schedule at Fort Peck dam in Montana. Due to heavy rain in Montana yesterday, some of which fell directly over the reservoir, inflows to that project today were double yesterday's rate. Inflows to Fort Peck are expected to remain above previously forecasted levels for the next 6 to 8 days due to yesterday's rain, combined with the additional rain discussed previously by the HPC and some snowmelt runoff.

As a result we are increasing Fort Peck releases sooner and to a higher level than shown on yesterday's forecast. The current schedule is to increase to 55,000 cfs tomorrow and 60,000 cfs on Friday. An additional increase to 65,000 cfs is not beyond the realm of possibility, but we will wait for the inflow forecast to verify over the next day or two before making that decision.

This increase in Fort Peck releases will allow us to better balance the flood storage in Fort Peck and Garrison reservoirs but will not result in a change in releases at Garrison or any of the other 5 mainstem dams.

The planned peak release of 150,000 cfs from Garrison, Oahe, Big Bend, Fort Randall and Gavins Point is still valid and absolutely necessary.

The Omaha District is currently in the process of assessing the likely impacts of the increase on communities downstream of Fort Peck Dam.

Planned releases at the 6 dams based on the forecast we posted on the web this afternoon are as follows:

- Fort Peck –Releases today 50,000 cfs, increasing to 55,000 cfs on tomorrow and 60,000 cfs on Friday.
- Garrison –130,000 cfs today, holding at that level tomorrow, then gradually stepping up to 150,000 cfs by late next week.
- Oahe and Big Bend –Releases will remain at the peak level of 150,000 cfs.
- Fort Randall – 137,000 cfs today, increasing to 140,000 cfs tomorrow, gradually stepping up to the peak release of approximately 148,000 cfs by the middle of next week.
- Gavins Point – 140,000 cfs today, holding 140,000 cfs tomorrow, then gradually stepping up to the peak release of 150,000 cfs by the middle of next week.

There are many rumors floating around about the peak releases from the mainstem reservoirs. I assure you that based on the latest forecast, the highest level of release currently anticipated remains 150,000 cfs at the five lowest mainstem dams: Garrison, Oahe, Big Bend, Fort Randall and Gavins Point.

We remind you that our updated forecast will be posted on the web each afternoon.

The forecast is based on best available information at this time; actual releases are based on conditions on the ground and are subject to change.

Peak releases are expected to continue well into August.

Water Management General Talking Points – Updated 5 June 2011

Operation in accordance with Master Manual

- The Missouri River Mainstem Reservoir System has been operated in accordance with the Master Manual.
- The full flood control capacity of the mainstem reservoir system was available at the start of this year's runoff season.
 - System storage on 28 January 2011 was at the desired level of 56.8 MAF
 - All of the flood water from 2010 had been evacuated prior to the start of the 2011 runoff season
- Should releases have been increased sooner?
 - This flood event was due to extraordinary rainfall in eastern Montana, Northern Wyoming and the western Dakota in May combined with additional mountain snowpack accumulation to record levels and a delayed melt.
 - We had no basis on which to justify record releases prior to the repeated rounds of heavy rain in May. Regulation of the reservoir system is not based on a worse-case scenario; it is managed for a reasonable range of potential runoff.
 - Peak Releases for the basic and upper basic runoff condition in our April 1 forecast were as follows:
 - Fort Peck: 11,000 cfs basic, 18,000 cfs upper basin
 - Garrison: 30,500 cfs basic, 41,500 cfs upper basic
 - Oahe: 41,800 cfs basic, 55,300 cfs upper basin
 - Big Bend: 41,400 cfs basic, 55,000 cfs upper basin
 - Fort Randall: 43,800 cfs basic, 57,700 cfs upper basic
 - Gavins Point: 45,000 cfs basic, 59,500 cfs upper basic
 - Peak Releases for the basic and upper runoff condition in our May 1 forecast were as follows:
 - Fort Peck: 20,000 cfs basic, 26,000 cfs upper basin
 - Garrison: 49,000 cfs basic, 61,500 cfs upper basic
 - Oahe: 54,100 cfs basic, 62,400 cfs upper basin
 - Big Bend: 54,000 cfs basic, 63,500 cfs upper basin
 - Fort Randall: 56,100 cfs basic, 66,200 cfs upper basic
 - Gavins Point: 57,500 cfs basic, 68,000 cfs upper basic
 - Mountain snowpack was tracking slightly above normal through early April, and then rose dramatically between mid-April and early May.
 - Jan 1 Snowpack = 112% FTPK, 120% GARR
 - Feb 1 Snowpack = 112% FTPK, 111% GARR
 - Mar 1 Snowpack = 109% FTPK, 106% GARR
 - Apr 1 Snowpack = 116% FTPK, 112% GARR
 - May 1 Snowpack = 141% FTPK, 136% GARR
 - Peak Snowpack = 141% FTPK on May 2, 136% GARR on May 2
 - At no time prior to mid May did we anticipate needing record releases from the mainstem reservoir system.
- Will this change the way the reservoir system is operated in future years?
 - The reservoir system has been operated in accordance with the Master Manual. The Master Manual Review and Update study, which was conducted between 1989 and 2004, analyzed the potential to provide additional flood control storage

by lowering the top of the Carryover Multiple Use Zone. That alternative was studied but not selected.

- 2011 is a new data point in the history of the Missouri River basin, both in terms of hydrology and flood plain impacts, and this event will certainly be studied in the future. Whether or not future studies lead to changes in the operation of the reservoir system or land use policies remains to be seen.
- Did you store water to help out the flooding on the Mississippi River?
 - We have not operated the mainstem system for the benefit of the Mississippi River. We did coordinate with LRD and MVD throughout the spring during their operation so they would know what was coming from Missouri system, but we do not have authority to operate the Missouri River reservoirs solely for the benefit of the Mississippi River.
- Were releases held back earlier in the season to protect nesting least terns and piping plovers?
 - No operational decisions this year were driven by ESA (nesting least terns and piping plovers), rather we have been operating for flood risk reduction.

Climatic Conditions

- This flood event was due to repeated rounds of heavy rain, coupled with near record plains snowpack which filled up virtually all of the reservoir storage we intended to utilize to manage the snowmelt runoff. Mountain snowpack accumulation is much above normal and continued to accumulate well into May, reaching record levels in some areas. In addition, the melt has been delayed, increasing the likelihood of a rapid melt.
- Snowpack is well above historic levels and has only just begun to melt in others
 - Ft Peck - crested at 136% of normal peak; currently 96% of the normal peak
 - Garrison - crested at 141% of peak; currently 113% of the normal peak
- May 2011 runoff in the Missouri River basin above Sioux City was 10.5 MAF; the previous record May inflow was 7.2 MAF (1995)
 - May 2011 inflow into Fort Peck was 2.9 MAF; previous May FTPK record was 2.6 MAF (1975)
 - May 2011 inflow into Garrison was 4.4 MAF; previous May GARR record was 2.8 MAF (1978)
- The May 2011 monthly inflow of 10.5 MAF is the 2nd highest monthly total from 1898-2011, exceeded only in April 1952 (13.2 MAF)

Reservoir Releases

- Peak releases of 150 kcfs are certain for lower 5 dams, and could reach that level sooner than current projections if conditions in the upper basin deteriorate and releases could potentially go higher.
- How long will the high flows continue?
 - High releases will continue through at least mid-August. We would like to have the bulk of the flood water evacuated by early fall so that flooded areas can dry out, and folks can inspect the damage and make necessary repairs to ensure we're ready for next year.
 - We don't have an exact schedule at this time. It will certainly depend on how the project facilities and the system of risk reduction measures performs with the high flows as well as runoff conditions in the coming months.
 - Our best guess at this time is that we may be able to start reducing releases in the mid-August timeframe.

- Previous Record Releases
 - Fort Peck 35 kcfs in 1975
 - Garrison 65 kcfs in 1975
 - Oahe 59 kcfs in 1997
 - Big Bend 74 kcfs in 1997
 - Fort Randall 67 kcfs in 1997
 - Gavins Point 70,000 cfs in 1997

- Master Manual: We have received numerous questions from the media and the public about how we manage water releases from our reservoirs. I would just like to reemphasize that all of these decisions are based on the Master Manual, which is a water control plan that helps guide how much water should be released, when, and for how long from our reservoirs for the benefit of the entire Missouri River basin. The Master Manual is based on over 100 years of historical runoff records (1898-2004).

We revised the Master Manual in 2004 following a 14-year period of public involvement throughout the Missouri River Basin to gain input on how the System should be operated. Hundreds of alternatives were analyzed and considered during this process. The current Master Manual reflects the input from the public and Tribes throughout the entire Basin on how the reservoirs could best be operated to serve all the purposes for which they were constructed.

- Duration: We are also getting many questions regarding the duration of the high flows. These peak releases will likely extend well into August. Our reservoir forecast posted on the web shows Fort Peck still in the surcharge pool, and Garrison and Oahe still in their exclusive flood control pools on 15 July. We need to maintain these high releases until the reservoirs are back down to a manageable level.

The other guiding principle here is that we want to have the releases in the fall at a low enough level for things to dry out and repair work to start before winter. This applies to our mainstem dams as well as impacted communities, infrastructure and flood risk mitigation projects downstream of the dams. Over the next several days we will be looking at several scenarios for evacuating the flood water stored in the mainstem reservoir system and will provide better estimates when they become available.

[REDACTED] F NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 7:01 PM
To: [REDACTED] HQ02; [REDACTED] NWO
Subject: RE: For your review (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

The reservoir pool information and releases are correct as is the statement regarding Fort Peck releases. You would have to check with the RFC regarding the statement about the shift in the rating curve.

Jody

-----Original Message-----

From: [REDACTED] D HQ02
Sent: Wednesday, June 08, 2011 6:55 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO
Subject: FW: For your review (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody/[REDACTED]

I have been asked to review the following and wanted to run by you. In reference to the RFC paragraph are we in agreement with this statement? Also is the comment regarding Ft. Peck on target regarding through the middle of July?

Thanks

[REDACTED]
[REDACTED] g air manager
HQ-USACE Contingency Operations Directorate
441 G Street NW
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[REDACTED] Blackberry
[REDACTED] Cell
[REDACTED] [\[REDACTED\]@usace.army.mil](mailto:[REDACTED]@usace.army.mil)

-----Original Message-----

From: Doering, Tom [<mailto:tdoering@nd.gov>]
Sent: Wednesday, June 08, 2011 5:56 PM
To: [REDACTED] HQ02
Subject: For your review

Summary

• Current pool elevation at Garrison reservoir is 1853.2 feet mean sea level (msl) and the USACE Water Management Division's stated Garrison Dam release schedule, is as listed below:

o Increase to 130,000 cubic feet per second (cfs) today

o Increase to 135,000 cfs on Friday

• The River Forecast Center (RFC) has acknowledged the applied numerical correction (manual shift) in consideration of observed changes to Missouri River dynamics. The shift has been applied to the U.S. Geological Survey (USGS) rating curve and adopted by the National Weather Service (NWS), for application to forecasting river stage in the Bismarck/Mandan area. Commensurate with the revised rating curve is today's 17.4 feet and forecasts for 18 feet on Sunday, followed by 19 feet on June 18.

• Fort Peck Reservoir is experiencing high inflows due to recent rain. As a result, the forecasted discharge tomorrow is 55,000 cfs, with a sustained discharge of 60,000 cfs at least through the middle of July. This release schedule has not impacted the release schedule from Garrison Dam.

Tom Doering

N.D. Department of Emergency Services

Division of Homeland Security

tdoering@nd.gov

701-328-8206 (desk)

701-595-1016 (cell)

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

~~██████████~~ F NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 7:05 PM
To: Fredlund, Diana J NWP; Farmer, Monique L NWO
Subject: RE: Fort Peck news release (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

I would change the statement about the rainfall to say: Portions of Montana received nearly a year's worth of rain last month, nearly filling the reservoirs.

Other than that, looks good to go.

Thanks and sorry for the delay responding to your request.

Jody

-----Original Message-----

From: Fredlund, Diana J NWP
Sent: Wednesday, June 08, 2011 6:58 PM
To: Farmer, Monique L NWO; Farhat, Jody S NWD02
Subject: FW: Fort Peck news release (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Are we OK to distribute?

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

-----Original Message-----

From: ~~██████████~~ NWP
Sent: Wednesday, June 08, 2011 4:55 PM
To: Farhat, Jody S NWD02; Farmer, Monique L NWO
Subject: Fort Peck news release (UNCLASSIFIED)
Importance: High

Classification: UNCLASSIFIED
Caveats: NONE

Jody, Monique,

~~John Doe~~ is in an interview with the Billings Gazette and hasn't seen this but I wanted to keep it moving. I took your information from the email, Jody. Let me know if anything needs changing. As soon as you and John OK it I'll send it out right after the meeting.

Thanks,
Diana

Diana J. Fredlund
Public Affairs Specialist
Fort Peck Project
U.S. Army Corps of Engineers, Omaha District
Phone: (406) 526-3411 Ext. 4285
Cell phone: (406) 526-7308
To learn more about our flood response, visit our website at www.nwo.usace.army.mil

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

[REDACTED] NWO

From: Farhat, Jody S NWD02
Sent: Wednesday, June 08, 2011 8:38 PM
To: [REDACTED] NWD02
Subject: 10 year traces

Kevin, did we ever get the 10 year pool elevation plots done? I don't recall seeing them but could have easily missed an email

[REDACTED] will be in the office tomorrow. He's the one who was asking for them.

If they're not done, don't worry about it and certainly don't do them tonight. He understands that we're incredibly busy.

Have a good evening.

Jody

From: McMahon, John R BG NWD
Sent: Wednesday, June 08, 2011 10:59 PM
To: Farhat, Jody S NWD01, [REDACTED] Anderson, G Witt NWD
Cc: Ruch, Robert J COL NWO
Subject: WAPA Regulating plant

Jody [REDACTED] Witt:

Discussed the Oahe release situation with [REDACTED] today and believe he/we had an expectation from WAPA that Oahe would not continue this role past a few days ago--what's supposed to be happening? Does it matter? Should I get engaged with WAPA? Please advise. Thanks.

Vr/John McMahon

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

From: [REDACTED]
Sent: Thursday, June 09, 2011 10:36 AM
To: Stasch, Eric D NWO; [REDACTED] M NWO; Curran, Thomas J NWO; Fink, Keith J NWO
Cc: Farhat, Jody S NWD02; Swenson, Michael A NWD02; Evenson, Dale W NWD
Subject: RE: WAPA Regulating plant (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Western has requested that we take two of our four units off line this weekend at Garrison, due to expected decreases in demand. That too creates some operational and maintenance challenges, as we now expect to see increased wave action below our switchyard and expect this will exacerbate the sloughing we've been trying to stay ahead of...

-----Original Message-----

From: [REDACTED]
Sent: Thursday, June 09, 2011 10:31 AM
To: [REDACTED] M NWO; Lindquist, Todd J NWO; Curran, Thomas J NWO; Fink, Keith J NWO
Subject: RE: WAPA Regulating plant (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Kind of what I figured. Am planning to have personnel at the Outlet works control for the remainder of this flood event, 7 days a week hopefully only during the day. We are now looking at 11hr days (0600-1730).

-----Original Message-----

From: Schenk, Kathryn M NWO
Sent: Thursday, June 09, 2011 10:20 AM
To: Lindquist, Todd J NWO; Curran, Thomas J NWO; Fink, Keith J NWO; Stasch, Eric D NWO
Subject: FW: WAPA Regulating plant (UNCLASSIFIED)

FYI

-----Original Message-----

From: Farhat, Jody S NWD02
Sent: Thursday, June 09, 2011 10:07 AM
To: McMahon, John R BG NWD; Ruch, Robert J COL NWO; Anderson, G Witt NWD; [REDACTED] NWO; Schenk, Kathryn M NWO; Mellen, Gregory NWO
Subject: FW: WAPA Regulating plant (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Sir - see below for [REDACTED]'s update on where we are with WAPA. Bottom line is we're working with them on a solution, but there is infrastructure that has to be put in place and tested before they can use other generating facilities for load control. Even if it works, they probably won't be able to completely eliminate fluctuations at the dams though the frequency of changes may be less.

Jody

Jody

-----Original Message-----

From: [REDACTED] HQ02
Sent: Wednesday, June 08, 2011 6:55 PM
To: Farhat, Jody S NWD02; [REDACTED] NWO
Subject: FW: For your review (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Jody/[REDACTED]

I have been asked to review the following and wanted to run by you. In reference to the RFC paragraph are we in agreement with this statement? Also is the comment regarding Ft. Peck on target regarding through the middle of July?

Thanks

[REDACTED]
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HQ-USACE Contingency Operations Directorate
441 G Street NW
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202-286-1398 Blackberry
202-510-1769 Cell
[REDACTED]@usace.army.mil

-----Original Message-----

From: Doering, Tom [mailto:tdoering@nd.gov]
Sent: Wednesday, June 08, 2011 5:56 PM
To: [REDACTED] HQ02
Subject: For your review

Summary

• Current pool elevation at Garrison reservoir is 1853.2 feet mean sea level (msl) and the USACE Water Management Division's stated Garrison Dam release schedule, is as listed below:

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